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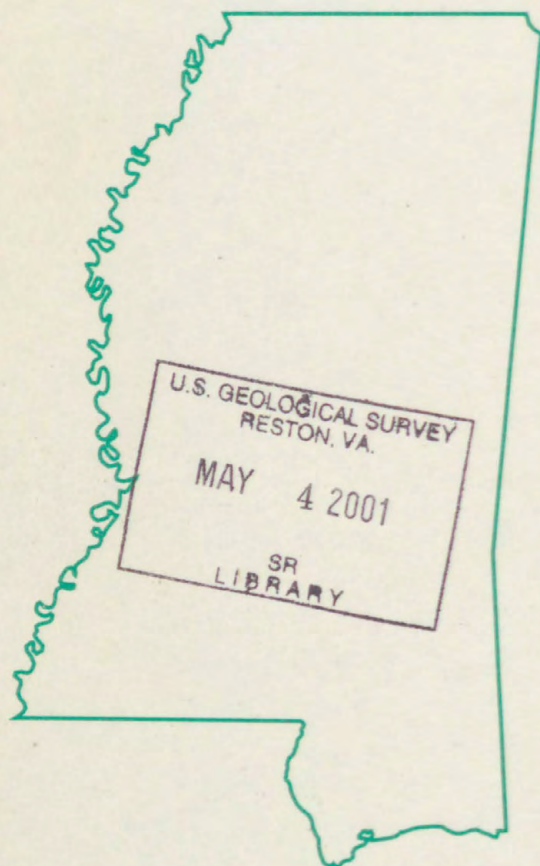
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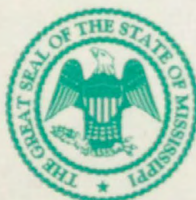
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# Water Resources Data Mississippi Water Year 2000

Water-Data Report MS-00-1



U.S. Department of the Interior  
U.S. Geological Survey



Prepared in cooperation with the  
Mississippi Department of Environmental Qual-  
ity and with other State, county,  
municipal, and Federal agencies



# CALENDAR FOR WATER YEAR 2000

1999

## OCTOBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
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## NOVEMBER

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## DECEMBER

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2000

## JANUARY

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## FEBRUARY

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## MARCH

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## APRIL

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## MAY

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## JUNE

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## JULY

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## AUGUST

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## SEPTEMBER

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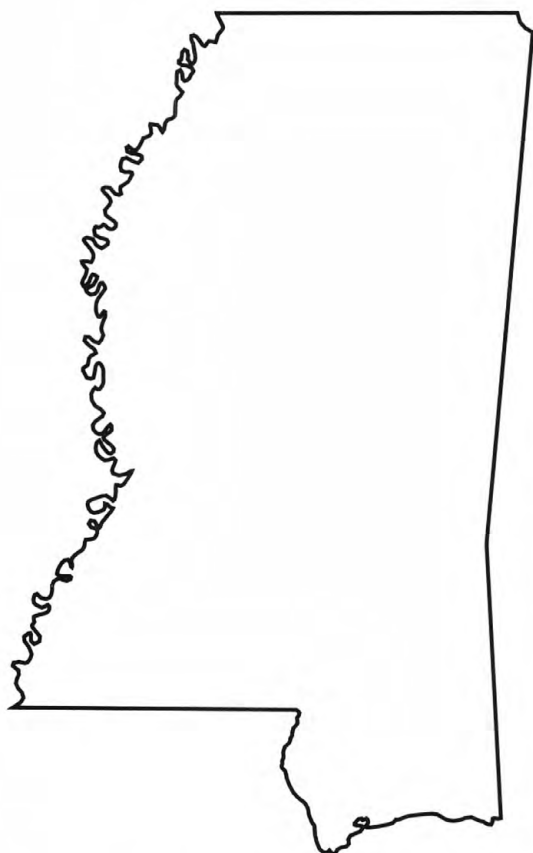


U.S. Department of the Interior  
U.S. Geological Survey

# Water Resources Data Mississippi Water Year 2000

By M.L. Plunkett, F. Morris III, and D.P. Turnipseed

Water-Data Report MS-00-1



Prepared in cooperation with the Mississippi Department of Environmental Quality  
and with other State, county, municipal, and Federal agencies





U.S. DEPARTMENT OF THE INTERIOR

GALE A. NORTON, Secretary

U.S. GEOLOGICAL SURVEY

Charles G. Groat, Director

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the water program in Mississippi  
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Pearl, Mississippi 39208-6649

## PREFACE

This volume of the annual hydrologic data report of Mississippi is one of a series of annual reports that documents hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines. The following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Mississippi and with other agencies under the general supervision of Leonard R. Frost, Jr., District Chief, Mississippi.



# REPORT DOCUMENTATION PAGE

Form Approved  
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |                                            |                            |                                                                             |  |
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| 1. AGENCY USE ONLY (Leave blank)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             | 2. REPORT DATE<br>April 2001               |                            | 3. REPORT TYPE AND DATES COVERED<br>Annual--Oct. 1, 1999 to Sept. 30, 2000  |  |
| 4. TITLE AND SUBTITLE<br><br>Water Resources Data, Mississippi, Water Year 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |                                            |                            | 5. FUNDING NUMBERS                                                          |  |
| 6. AUTHOR(S)<br><br>M.L. Plunkett, F. Morris III, D.P. Turnipseed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                            |                            |                                                                             |  |
| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)<br><br>U.S. Geological Survey, Water Resources Division<br>308 South Airport Road<br>Pearl, Mississippi 39208-6649                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |                                            |                            | 8. PERFORMING ORGANIZATION<br>REPORT NUMBER<br><br>USGS-WDR-MS-00-1         |  |
| 9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)<br><br>U.S. Geological Survey, Water Resources Division<br>308 South Airport Road<br>Pearl, Mississippi 39208-6649                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |                                            |                            | 10. SPONSORING / MONITORING<br>AGENCY REPORT NUMBER<br><br>USGS-WDR-MS-00-1 |  |
| 11. SUPPLEMENTARY NOTES<br><br>Prepared in cooperation with the State of Mississippi and with other agencies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |                                            |                            |                                                                             |  |
| 12a. DISTRIBUTION / AVAILABILITY STATEMENT<br><br>No restrictions on distribution. This report may be purchased from:<br>National Technical Information Service, Springfield, VA 22161                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             |                                            |                            | 12b. DISTRIBUTION CODE                                                      |  |
| 13. ABSTRACT (Maximum 200 words)<br><br>Water resources data for the 2000 water year for Mississippi consist of records of surface water and ground water in the State. Specifically, it contains: (1) Discharge records for 96 streamflow-gaging stations, stage records for 19 of these gaging stations, discharge records for 73 partial-record or miscellaneous streamflow stations, including 7 flood hydrograph partial-record stations, 70 crest-stage partial-record stations, and 4 special study and miscellaneous sites; (2) stage only at 1 gaging station; (3) water-quality records for 15 streamflow-gaging stations, 3 partial-record or miscellaneous sites, 59 short-term study sites, and 24 wells; and (4) water-level records for 18 observation wells. Records obtained from water-resources investigations are also included in special sections of the report. These data represent that part of the National Water Data System operated by the U.S. Geological Survey, and cooperating local, State, and Federal agencies in Mississippi. |                                             |                                            |                            |                                                                             |  |
| 14. SUBJECT TERMS<br><br>*Mississippi, *Hydrologic data, *Surface water, *Ground water, Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water analyses, Water levels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |                                            |                            | 15. NUMBER OF PAGES<br><br>366                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |                                            |                            | 16. PRICE CODE                                                              |  |
| 17. SECURITY CLASSIFICATION<br>OF REPORT<br>Unclassified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 18. SECURITY CLASSIFICATION<br>OF THIS PAGE | 19. SECURITY CLASSIFICATION<br>OF ABSTRACT | 20. LIMITATION OF ABSTRACT |                                                                             |  |

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The following continuous-record surface-water discharge or stage-only stations (gage stations) in the Mississippi District have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (\*) after the station number are currently operated as crest-stage or flood hydrograph partial-record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only)]

## Discontinued surface-water discharge or stage-only stations

| Station name                                   | Station number | Drainage area (mi <sup>2</sup> ) | Period of record   |
|------------------------------------------------|----------------|----------------------------------|--------------------|
| MOBILE RIVER BASIN                             |                |                                  |                    |
| Little Brown Cr near New Site, MS (d)          | 02429949       | 42.2                             | 1973-89            |
| Mackeys Cr near Dennis, MS (d)                 | 02430000       | 66.9                             | 1938-80            |
| Mackeys Cr Bl Bay Springs Lock and Dam, MS (d) | 02430012       | 68.2                             | 1980-83            |
| Rock Cr near Belmont, MS (d)                   | 02430038       | 9.0                              | 1975-80            |
| Mackekys Cr near Moores Mill, MS (d)           | 02430100       | 118.0                            | 1983-95            |
| Tombigbee R at Beans Ferry near Fulton, MS (d) | 02431500       | 706.0                            | 1937-47            |
| Bull Mountain Cr near Smithville, MS (d)       | 02433000       | 336.0                            | 1941-84<br>1986-87 |
| Burkett Cr at Amory, MS (d)                    | 02433530       | 6.6                              | 1964-67            |
| Town Cr at Tupelo, MS (d)                      | 02434000*      | 111.0                            | 1944-46<br>1952-71 |
| Tishomingo Cr near Saltillo, MS (d)            | 02434250       | 30.1                             | 1949-63            |
| Euclautubba Cr at Saltillo, MS (d)             | 02434500       | 19.1                             | 1952-67            |
| Town Cr near Verona, MS (d)                    | 02435500       | 271.0                            | 1944-47            |
| Chiwapa Cr at Shannon, MS (d)                  | 02436000*      | 145.0                            | 1952-67            |
| Tombigbee R near Amory, MS (d)                 | 02437000*      | 928.0                            | 1938-85            |
| Tombigbee R at Aberdeen, MS (d)                | 02437500       | 2171.0                           | 1928-58<br>1972-82 |
| James Cr at Aberdeen, MS (d)                   | 02437600*      | 28.4                             | 1964-68            |
| Buttahatchee R near Caledonia, MS (d)          | 02439500       | 831.0                            | 1928-32            |
| Chuquatonchee Cr near Okalona, MS (d)          | 02439980*      | 66.7                             | 1963-68            |
| Chuquatonchee Cr near Egypt, MS (d)            | 02440000*      | 167.0                            | 1952-73            |
| Houlka Cr near McCondy, MS (d)                 | 02440400*      | 189.0                            | 1963-68            |
| Tibbee Cr near Tibbee, MS (d)                  | 02441000*      | 926.0                            | 1929-30<br>1940-88 |
| Catalpa Cr at Mayhew, MS (d)                   | 02441300*      | 98.0                             | 1963-68            |
| Luxapallila Cr at Steens, MS (d)               | 02443000*      | 309.0                            | 1944-47            |
| Cedar Cr near Trinity, MS (d)                  | 02443710       | 11.5                             | 1980-82            |
| Noxubee R near Brooksville, MS (d)             | 02447500       | 446.0                            | 1940-42            |
| PASCAGOULA RIVER BASIN                         |                |                                  |                    |
| Oakohay Cr at Mize, MS (d)                     | 02471500*      | 185.0                            | 1944-49            |
| Tallahattah Cr near Waldrup, MS (d)            | 02473480*      | 30.4                             | 1965-70            |
| Tallahoma Cr near Laurel, MS (d)               | 02474000       | 139.0                            | 1941-48            |
| Leaf R at Beaumont, MS (e)                     | 02474740       | 3010.0                           | 1972-76            |
| Okatibbee Cr near Meridian, MS (d)             | 02476000       | 236.0                            | 1939-74            |
| Chickasawhay R at Shubuta, MS (e)              | 02477350       | 1458.0                           | 1972-97            |
| Chickasawhay R near Waynesboro, MS (d,e)       | 02477500       | 1650.0                           | 1939-97            |
| Buckatunna Cr at Denham, MS (d)                | 02478000       | 506.0                            | 1939-49            |
| Flint Cr near Wiggins, MS (d)                  | 02479200       | 24.9                             | 1957-68            |
| Bluff Cr near Vancleave, MS (d)                | 02480250       | 52.0                             | 1974-79            |
| TCHOUTACABOUFFA RIVER BASIN                    |                |                                  |                    |
| Tuxachanie Cr near Biloxi, MS (d)              | 02480500*      | 92.4                             | 1953-71            |
| WOLF RIVER BASIN                               |                |                                  |                    |
| Wolf River near Lyman, MS (d)                  | 02481500       | 253.0                            | 1945-48            |
| JOURDAN RIVER BASIN                            |                |                                  |                    |
| Catahoula Cr near Santa Rosa, MS (d)           | 02481570       | 155.0                            | 1962-66            |
| PEARL RIVER BASIN                              |                |                                  |                    |
| Lobutchia Cr near Carthage, MS (d)             | 02482500       | 309.0                            | 1937-60            |
| Pearl R at Meeks Bridge near Canton, MS (d)    | 02485000       | 2755.0                           | 1939-63            |
| Pelahatchie Cr near Fannin, MS (d)             | 02485500       | 206.0                            | 1951-60            |
| Copiah Cr near Hazelhurst, MS (d)              | 02487900*      | 47.4                             | 1965-68            |
| Bahala Cr near Oma, MS (d)                     | 02488100       | 150.0                            | 1966-68            |
| Holiday Cr at Goss, MS (d)                     | 02488850       | 75.8                             | 1965-68            |
| Lower Little Cr near Baxterville, MS (d)       | 02489240       | 81.5                             | 1961-70            |

## Discontinued surface-water discharge or stage-only stations

| Station name                                        | Station number | Drainage area (mi <sup>2</sup> ) | Period of record   |
|-----------------------------------------------------|----------------|----------------------------------|--------------------|
| TENNESSEE RIVER BASIN                               |                |                                  |                    |
| Yellow Cr near Doskie, MS (d)                       | 03592800       | 143.0                            | 1938-59            |
| Tennessee-Tombigbee Waterway at Cross Roads (e)     | 03592824       | indeterminate                    | 1973-78<br>1981-95 |
| HATCHIE RIVER BASIN                                 |                |                                  |                    |
| Hatchie R near Walnut, MS (d)                       | 07029270       | 274.0                            | 1948-73            |
| TUSCUMBIA RIVER BASIN                               |                |                                  |                    |
| Tuscumbia R Canal near Corinth, MS (d)              | 07029300       | 277.0                            | 1950-59            |
| YAZOO RIVER BASIN                                   |                |                                  |                    |
| Cane Cr near New Albany, MS (d)                     | 07266000       | 22.2                             | 1939-41            |
| Cypress Cr near Etta, MS (d)                        | 07268500*      | 28.5                             | 1939-42            |
| North Tippah Cr near Ripley, MS (d)                 | 07269000*      | 20.0                             | 1939-42            |
| Clear Cr near Oxford, MS (d)                        | 07271000       | 10.3                             | 1939-41<br>1950-74 |
| Little Tallahatchie R at Sardis, MS (d)             | 07272500       | 1545.0                           | 1940-80            |
| Tallahatchie R near Sardis, MS (d)                  | 07273000       | 1595.0                           | 1932-42            |
| Little Tallahatchie R at Batesville, MS (d)         | 07273500       | 1750.0                           | 1907-13            |
| Yocona R at Enid Dam, MS (d)                        | 07275000       | 560.0                            | 1928-80            |
| Coldwater R near Lewisburg, MS (d)                  | 07276000       | 218.0                            | 1940-53            |
| Pigeonroost Cr near Lewisburg, (d)                  | 07277000       | 228.0                            | 1940-53            |
| Coldwater R near Coldwater, MS (d)                  | 07277550       | 617.0                            | 1928-42            |
| Coldwater R at Arkabutla Dam, MS (d)                | 07278500       | 1000.0                           | 1937-80            |
| Coldwater R at Savage, MS (d)                       | 07279500       | 1225.0                           | 1909-12<br>1936-42 |
| Tallahatchie R near Lambert, MS (d)                 | 07280000       | 1980.0                           | 1936-80            |
| Tillatoba Cr Bl Oakland, MS (d)                     | 07280270       | 37.1                             | 1974-84            |
| South Fork Tillatoba Cr near Charleston, MS (d)     | 07280340       | 53.9                             | 1975-87            |
| North Fork Tillatoba Cr near Teasdale, MS (d)       | 07280460       | 30.8                             | 1984-89            |
| Tallahtchie R at Swan Lake, MS (d)                  | 07281000       | 5130.0                           | 1939-80            |
| Yalobusha R at Graysport, MS (d)                    | 07282500       | 607.0                            | 1940-49            |
| Skuna R near Coffeeville, MS (d)                    | 07283500       | 435.0                            | 1940-49            |
| Yalobusha R at Grenada Dam near Grenada, MS (d)     | 07285000       | 1320.0                           | 1961-80            |
| Batupan Bogue at Grenada, MS (d)                    | 07285400       | 240.0                            | 1985-97            |
| Askalmore Cr at Retention Dam near Cascilla, MS (d) | 07285900       | 10.5                             | 1967-74            |
| Thompson Cr at McCarley, MS (d)                     | 07286500       | 14.4                             | 1957-64            |
| Yazoo R at Greenwood, MS (d)                        | 07287000       | 7450.0                           | 1908-13<br>1928-80 |
| Big Sunflower R at Clarksdale, MS (d)               | 07288000       | 108.0                            | 1937-42            |
| Big Sunflower R at Sunflower, MS (d)                | 07288500       | 767.0                            | 1936-80            |
| MISSISSIPPI RIVER BASIN                             |                |                                  |                    |
| Big Black R at Pickens, MS (d)                      | 07289500       | 1493.0                           | 1936-71            |
| Bayou Pierre near Carpenter, MS (d)                 | 07290500       | 371.0                            | 1945-51            |
| Mississippi R at Natchez, MS (d)                    | 07290880       | 1145400.0                        | 1949-78            |
| Homochitto R near Bude, MS (d)                      | 07291500       | 399.0                            | 1942-50            |
| Homochitto R near Kingston, MS (d)                  | 07293500       | 1000.0                           | 1945-49            |
| Homochitto R near Doloroso, MS (d)                  | 07294500       | 1120.0                           | 1940-51            |

## DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following continuous-record surface-water-quality stations in Mississippi have been discontinued. Daily records of specific conductance, pH, water temperature, turbidity, dissolved oxygen, or sediment were collected and published for the period of record shown for each station. Those stations with an asterisk (\*) after the station number are currently operated as continuing-record, partial-record, or miscellaneous stations. Discontinued short-term project stations have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

Letters used for type of record designate type of data collected: (k) specific conductance, (h) pH, (t) water temperature, (n) turbidity, (o) dissolved oxygen, (s) sediment.

## Discontinued continuous-record surface-water-quality stations

| Station name                                      | Station number | Drainage area (mi <sup>2</sup> ) | Type of record | Period of record (water years) |
|---------------------------------------------------|----------------|----------------------------------|----------------|--------------------------------|
| MOBILE RIVER BASIN                                |                |                                  |                |                                |
| Mackeys Creek near Dennis, MS                     | 02430000       | 66.9                             | k,h,t,o        | 1973-80                        |
|                                                   |                |                                  | n              | 1975-80                        |
|                                                   |                |                                  | s              | 1978-80                        |
| Mackeys Creek below Bay Springs Lock & Dam, MS    | 02430012       | 68.2                             | k              | 1980, 82-83                    |
|                                                   |                |                                  | h,t            | 1980-83                        |
|                                                   |                |                                  | n,o            | 1980-82                        |
|                                                   |                |                                  | s              | 1980, 82                       |
| Mackeys Creek near Moores Mill, MS                | 02430100       | 118                              | k,h,t,o        | 1983-84                        |
| PASCAGOULA RIVER BASIN                            |                |                                  |                |                                |
| Okatoma Creek at Saratoga, MS                     | 02472580       | 88.2                             | k              | 1970-71                        |
| Leaf River near Palmer, MS                        | 02473260       | 1,809                            | k              | 1971-75                        |
|                                                   |                |                                  | t              | 1971-72                        |
| Chickasawhay River at Enterprise, MS              | 02477000       | 918                              | k              | 1971-73                        |
| Pascagoula River at Merrill, MS                   | 02479000       | 6,590                            | k              | 1970-75                        |
|                                                   |                |                                  | t              | 1970-72                        |
| Pascagoula River near Benndale, MS                | 02479020       | 6,680                            | k              | 1976-81                        |
|                                                   |                |                                  | t              | 1958-60, 76-81                 |
| Red Creek near Carnes, MS                         | 024791834      | 99.5                             | k,t            | 1985-86                        |
| WOLF RIVER BASIN                                  |                |                                  |                |                                |
| Wolf River near Landon, MS                        | 02481510       | 308                              | k,t            | 1978-81                        |
| PEARL RIVER BASIN                                 |                |                                  |                |                                |
| Pearl River at Jackson, MS                        | 02486000       | 3,171                            | t              | 1963-64                        |
| Pearl River near Monticello, MS                   | 02488500       | 4,993                            | k,t            | 1966-69                        |
| Bogue Chitto near Tylertown, MS                   | 02490500       | 492                              | k              | 1968-69                        |
| TENNESSEE RIVER BASIN                             |                |                                  |                |                                |
| Yellow Creek near Doskie, MS                      | 03592800       | 143                              | k,h,t,o        | 1973-78                        |
|                                                   |                |                                  | n              | 1976-78                        |
| Tenn-Tom Waterway at Cross Roads, MS              | 03592824       | -                                | k,h,t,n,o      | 1980-85                        |
|                                                   |                |                                  | s              | 1981-85                        |
| Yellow Creek at Cross Roads, MS                   | 03592825       | 165                              | k,h,t,n,o,s    | 1978-79                        |
| YAZOO RIVER BASIN                                 |                |                                  |                |                                |
| Hotopha Creek near Batesville, MS                 | 07273100       | 35.1                             | k,t            | 1986-87                        |
|                                                   |                |                                  | h              | 1987                           |
|                                                   |                |                                  | s              | 1986-97                        |
| Otoulalofa Creek Canal near Water Valley, MS      | 07274252       | 97.1                             | k,t,o          | 1985-87                        |
|                                                   |                |                                  | h              | 1986-87                        |
|                                                   |                |                                  | s              | 1985-97                        |
| Peters (Long) Creek near Pope, MS                 | 07275530       | 79.2                             | k,h,t          | 1987                           |
|                                                   |                |                                  | s              | 1987-97                        |
| Hickahala Creek near Senatobia, MS                | 07277700 *     | 121                              | k,h,t,o        | 1986-90                        |
| Senatobia Creek near Senatobia, MS                | 07277730       | 82.0                             | k,h,t,o        | 1986-88                        |
|                                                   |                |                                  | s              | 1986-90                        |
| Coldwater River (Pompey Ditch) near Sledge, MS    | 07279800       | 1,404                            | k,t            | 1981-82                        |
| North Fork Tillatoba Creek near Teasdale, MS      | 07280460       | 30.8                             | s              | 1984-89                        |
| Yalobusha River at Calhoun City, MS               | 07281999       | 194                              | s              | 1997-98                        |
| Topashaw Creek Canal near Calhoun City, MS        | 07282100       | 101                              | s              | 1997-98                        |
| Skuna River at Bruce, MS                          | 07283000       | 254                              | t              | 1996-98                        |
| Batupan Bogue at Grenada, MS                      | 07285400       | 240                              | k,h,t,o        | 1985-87                        |
|                                                   |                |                                  | s              | 1985-97                        |
| Yazoo River near Shell Bluff, MS                  | 07287120       | 7,650                            | k,t            | 1976-81                        |
| Fannegusha Creek near Howard, MS                  | 07287355       | 107                              | s              | 1987-89                        |
| Harland Creek near Howard, MS                     | 07287404 *     | 62.1                             | k,h,t,o        | 1987                           |
| Bogue Phalia near Leland, MS                      | 07288650 *     | 484                              | k,t            | 1996-98                        |
| Yazoo River at Redwood, MS                        | 07288800       | 12,603                           | k,t            | 1978-81                        |
| Yazoo River below Steele Bayou near Long Lake, MS | 07288955 *     | 13,355                           | k,t            | 1996-98                        |
| MISSISSIPPI RIVER MAIN STEM                       |                |                                  |                |                                |
| Mississippi River at Vicksburg, MS                | 07289000       | 1,140,500                        | k              | 1975-93                        |
|                                                   |                |                                  | t              | 1974-93                        |
| BIG BLACK RIVER BASIN                             |                |                                  |                |                                |
| Big Black River near Bovina, MS                   | 07290000       | 2,812                            | k,t            | 1975-81                        |
| HOMOCHITTO RIVER BASIN                            |                |                                  |                |                                |
| Homochitto River at Rosetta, MS                   | 07292500       | 787                              | k,t            | 1975-81                        |



## INTRODUCTION

The Water Resources Division for the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of Mississippi each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Mississippi."

This report includes records of surface water and ground water in the State. Specifically, it contains: (1) Discharge records for 96 streamflow-gaging stations, stage records for 19 of these gaging stations, discharge records for 73 partial-record or miscellaneous streamflow stations, including 7 flood hydrograph partial-record stations, 70 crest-stage partial-record stations and 4 special study and miscellaneous sites, (2) stage only at 1 gaging station, (3) water-quality records for 15 streamflow-gaging stations, 3 partial-record or miscellaneous sites, 59 short-term study sites, and 24 wells, and (4) water-level records for 18 observation wells. Records obtained from water-resources investigations are also included in special sections of the report. Records included for stream stages are only a small fraction of those obtained during the water year.

This series of annual reports for Mississippi began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Mississippi were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States, Parts 2B, 3B and 7". For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from Distribution Branch, Text Products Section, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report MS-00-1." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

## COOPERATION

The U.S. Geological Survey and agencies of the State of Mississippi have had cooperative agreements for the systematic collection of streamflow records since 1931, for ground-water levels since 1939, for water-quality records since 1964, and for atmospheric precipitation-quality since 1982. In addition, data for water-resources investigations have been collected. Organizations that assisted in the collection of data through cooperation with the Survey are:

Mississippi Department of Environmental Quality, Charles H. Chisolm, Executive Director.  
 Office of Land and Water Resources, Charles T. Branch, Director.  
 Office of Pollution Control, Phil Bass, Director.  
 Mississippi Department of Transportation, W. Hugh Long, Executive Director.  
 Pat Harrison Waterway District, Chris Bowen, Executive Director.  
 Pearl River Basin Development District, Mike Davis, Executive Vice President.  
 Pearl River Valley Water Supply District, Kenneth Griffin, General Manager.  
 Harrison County Board of Supervisors, Larry Benefield, President.  
 Harrison County Development Commission, Michael J. Olivier, Executive Director.  
 Jackson County Port Authority, Melody Bradley, Port Director.  
 City of Jackson, Harvey Johnson, Jr., Mayor.

Assistance with funds or services was provided by the U. S. Army Corps of Engineers in collecting records for 49 streamflow-gaging stations, 1 stage-only gaging station, 4 crest-stage gages, and 16 surface-water quality sites published in this report.

Organizations that provided data are acknowledged in station descriptions.

## SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

Annual mean streamflow was below normal in most streams in Mississippi during the 2000 water year. Comparisons of monthly mean and annual mean discharges in the 2000 water year with median values for the period 1971-2000 were made for three representative gaging stations: Tombigbee River at Stennis Lock and Dam near Columbus, in northeastern Mississippi, Big Black River near Bovina, in central Mississippi, and Pascagoula River at Merrill, in southeastern Mississippi. The monthly mean discharges at these three sites were below the normal range ( $\pm 25$  percent of the median or the reference period 1971-2000) during 11 months of the 2000 water year. The following three paragraphs discuss flow for the water year for three representative gaging stations in Mississippi.

Runoff of the Tombigbee River at Stennis Lock and Dam near Columbus was 10.48 inches for the water year, or 48 percent of the median annual runoff of 21.75 inches for the reference period 1971-2000. Discharge was above normal in April, when the monthly mean discharges was 215 percent of the median monthly discharge for the reference period. Discharge was below normal for all months of the 2000 water year except April (fig. 1). The following table shows mean monthly discharges for the 2000 water year, percents of the median discharges for the reference period, and median discharges for the reference period for the below-normal months.

| Date      | Mean discharge<br>(ft <sup>3</sup> /s) | Percent of<br>median discharge | Median discharge<br>1971-2000 (ft <sup>3</sup> /s) |
|-----------|----------------------------------------|--------------------------------|----------------------------------------------------|
| Oct. 1999 | 728                                    | 54                             | 1351                                               |
| Nov. 1999 | 1084                                   | 32                             | 3391                                               |
| Dec. 1999 | 1360                                   | 15                             | 9096                                               |
| Jan. 2000 | 2776                                   | 23                             | 11952                                              |
| Feb. 2000 | 2970                                   | 26                             | 11423                                              |
| Mar. 2000 | 6175                                   | 40                             | 15279                                              |
| May 2000  | 1731                                   | 25                             | 6820                                               |
| Jun. 2000 | 1470                                   | 49                             | 2988                                               |
| Jul. 2000 | 901                                    | 49                             | 1840                                               |
| Aug. 2000 | 610                                    | 52                             | 1176                                               |
| Sep. 2000 | 593                                    | 48                             | 1240                                               |

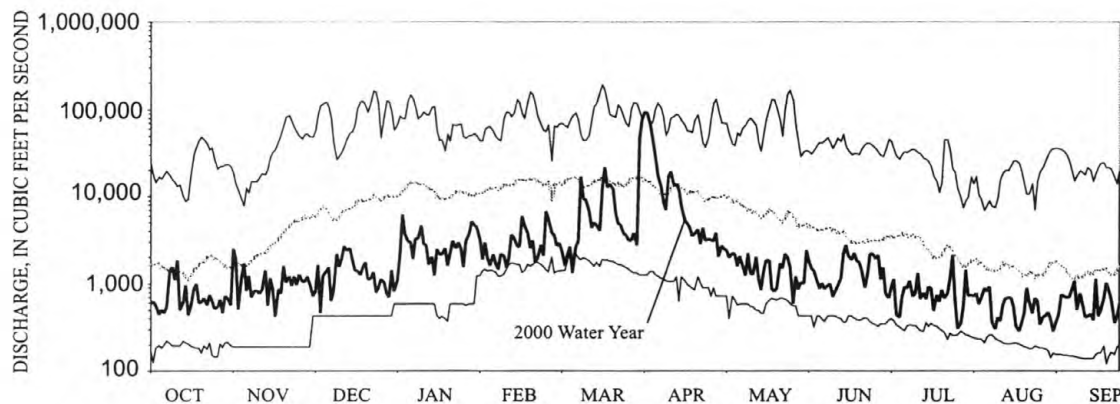


Figure 1.--Relation of daily mean discharge of the Tombigbee River at Stennis Lock and Dam near Columbus, Mississippi during the 2000 water year to maximum mean, and minimum daily mean discharges for the period of record.

Runoff of the Pascagoula River at Merrill was 6.04 inches for the water year, or 28 percent of the median annual runoff for the reference period (21.21 inches). Discharge was above normal in October, when the monthly mean discharge was 145 percent of the monthly median discharge for the reference period. Discharge was below normal for the last 11 months of 2000 water year (fig. 2). The following table shows mean monthly discharges for the 2000 water year, percents of the median discharges for the reference period, and median discharges for the reference period for the below-normal months.

| Date      | Mean discharge<br>(ft <sup>3</sup> /s) | Percent of<br>median discharge | Median discharge<br>1971-2000 (ft <sup>3</sup> /s) |
|-----------|----------------------------------------|--------------------------------|----------------------------------------------------|
| Nov. 1999 | 1405                                   | 32                             | 4348                                               |
| Dec. 1999 | 2302                                   | 24                             | 9631                                               |
| Jan. 2000 | 5269                                   | 30                             | 17363                                              |
| Feb. 2000 | 2407                                   | 13                             | 17914                                              |
| Mar. 2000 | 5716                                   | 28                             | 20514                                              |
| Apr. 2000 | 8667                                   | 57                             | 15337                                              |
| May. 2000 | 1732                                   | 18                             | 9419                                               |
| Jun. 2000 | 1229                                   | 24                             | 5026                                               |
| Jul. 2000 | 938                                    | 28                             | 3302                                               |
| Aug. 2000 | 932                                    | 26                             | 3580                                               |
| Sep. 2000 | 803                                    | 34                             | 2335                                               |

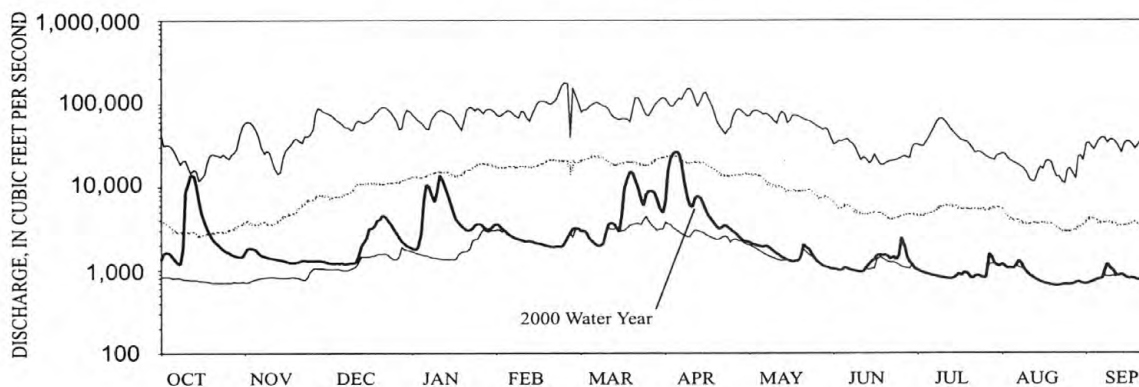


Figure 2.--Relation of daily mean discharge of the Pascagoula River at Merrill, Mississippi during the 2000 water year to maximum mean, and minimum daily mean discharges for the period of record.

Runoff of the Big Black River near Bovina was 9.76 inches for the water year, or 49 percent of the median annual runoff for the reference period (19.88 inches). Discharge was above normal in April when the monthly mean discharge was 164 percent of the monthly mean discharge for the reference period. Discharge was below normal in the other 11 months of the 2000 water year (fig. 3). The following table shows mean monthly discharges for the 2000 water year, percents of the median discharges for the reference period, and median discharges for the reference period for the below-normal months.

| Date      | Mean discharge<br>(ft <sup>3</sup> /s) | Percent of<br>median discharge | Median discharge<br>1971-2000 (ft <sup>3</sup> /s) |
|-----------|----------------------------------------|--------------------------------|----------------------------------------------------|
| Oct. 1999 | 406                                    | 70                             | 581                                                |
| Nov. 1999 | 373                                    | 24                             | 1567                                               |
| Dec. 1999 | 468                                    | 13                             | 3720                                               |
| Jan. 2000 | 549                                    | 8                              | 6997                                               |
| Feb. 2000 | 672                                    | 10                             | 6567                                               |
| Mar. 2000 | 3199                                   | 37                             | 8731                                               |
| May. 2000 | 842                                    | 41                             | 3867                                               |
| Jun. 2000 | 528                                    | 62                             | 1486                                               |
| Jul. 2000 | 255                                    | 44                             | 898                                                |
| Aug. 2000 | 157                                    | 38                             | 551                                                |
| Sep. 2000 | 123                                    | 43                             | 407                                                |

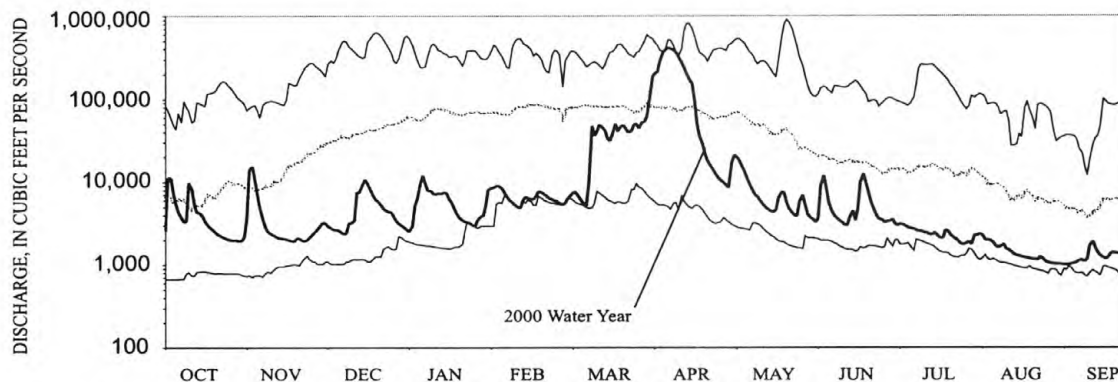


Figure 3.--Relation of daily mean discharge of the Big Black River at Bovina, Mississippi during the 2000 water year to maximum mean, and minimum daily mean discharges for the period of record.

#### Streamflow Quality

The surface-water quality of most of Mississippi's 84,000 miles of rivers fully or partially supports designated uses. The major cause of impaired water quality is nonpoint agricultural runoff; lesser causes are industrial and municipal point-source discharges and runoff from nonagricultural nonpoint sources.

Dissolved-solids concentrations are low, generally less than 100 mg/L (milligrams per liter), in water from most streams in Mississippi. Dissolved-oxygen concentrations are generally greater than 5.0 mg/L and are lowest during the summer months when stream temperatures are high and streamflow velocities are low. Determinations of pH indicate that most streams are neutral to slightly acidic at most times. The minimum, median, and maximum values of dissolved-solids concentrations, dissolved-oxygen concentrations, and values of pH during water year 2000 for the National Water-Quality Assessment integrator station, 07288955 Yazoo River below Steele Bayou near Long Lake, Mississippi, 8.2 miles above its confluence with the Mississippi River, are presented in the following table:

## Yazoo River below Steele Bayou near Long Lake, MS

Water year 2000

|                                                         | <u>Minimum</u> | <u>Median</u> | <u>Maximum</u> |
|---------------------------------------------------------|----------------|---------------|----------------|
| Dissolved-solids concentration, in milligrams per liter | 53             | 75            | 137            |
| Dissolved-oxygen concentration, in milligrams per liter | 4.2            | 6.7           | 11.3           |
| pH, in standard units                                   | 6.6            | 7.2           | 7.8            |

Ground-Water Levels

Ground-water levels in most artesian aquifers statewide continued long-term declines in the latter part of the 2000 water year following seasonal water-level recoveries during the early part of the year. Fluctuations of ground-water levels in representative observation wells are shown in the hydrographs in figure 4.

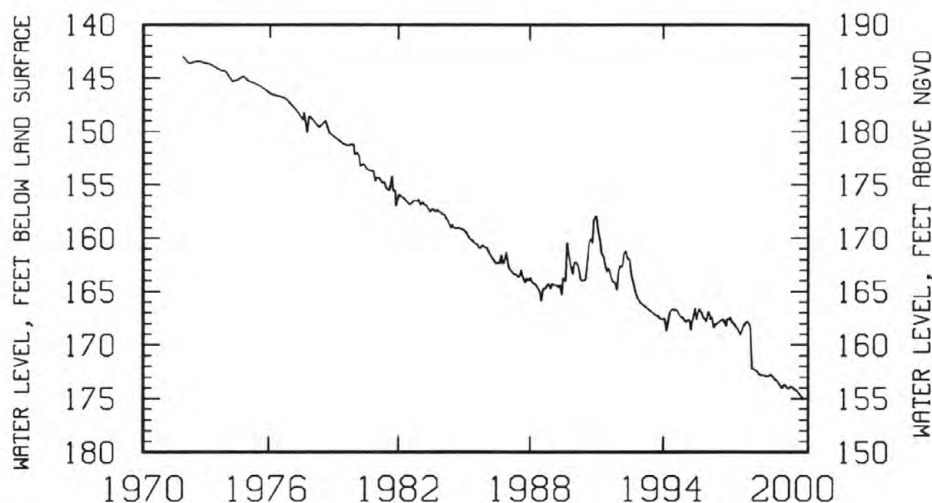


Figure 4.--Hydrograph of well H155 in the Cockfield aquifer in the Jackson metropolitan area.

Ground-water withdrawals are concentrated in the urbanized and industrialized areas and in the Mississippi River Alluvial Plain of northwestern Mississippi. These withdrawals have resulted in significant long-term declines in water levels in some areas. Declining ground-water levels and the ability of the aquifers to meet the increasing demand for water continue to be important water-resources concerns in the State.

In central Mississippi, water levels in the Cockfield Formation declined slightly at selected sites, while levels in a few wells near pumping centers declined 1 to 4 feet. Wells screened in the Sparta Sand indicated declines of 2 to 6 feet. Record low water levels were measured in several wells in the Cockfield and Sparta aquifers in the Jackson metropolitan area. Water levels in wells screened in the Vicksburg Group and Forest Hill Sand used primarily for domestic use declined slightly at selected sites.

## SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives: (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO<sub>2</sub> emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO<sub>2</sub> and NO<sub>x</sub> scheduled to begin in 2000.



Data from the network, as well as information about individual sites, are available through the world wide web at:

<http://nadp.nrel.colostate.edu/NADP>

National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

[http://wwwrvares.er.usgs.gov/nawqa/nawqa\\_home.html](http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html)

Radiochemical Program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

#### EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 2000 water year that began October 1, 2000, and ended September 30, 2001. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 4, 5, and 6. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

#### Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells.

#### Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-to-fourteen digit number for each station, such as 02429900, which appears just to the left of the station name, includes the two-digit Part number "02" plus the six-to-twelve digit downstream-order number "429900". In this report, the records are listed in downstream order by parts. The Part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 2 (South Atlantic slope and eastern Gulf of Mexico basins), Part 3 (Ohio River basin), and Part 7 (Lower Mississippi River basin). All records for a drainage basin encompassing more than one state can be arranged in downstream order by assembling pages from the various state reports by station number to include all records in that basin.

## Latitude-Longitude System

The identification numbers for wells, miscellaneous surface-water quality sites, and precipitation quality sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. See figure 5 below.

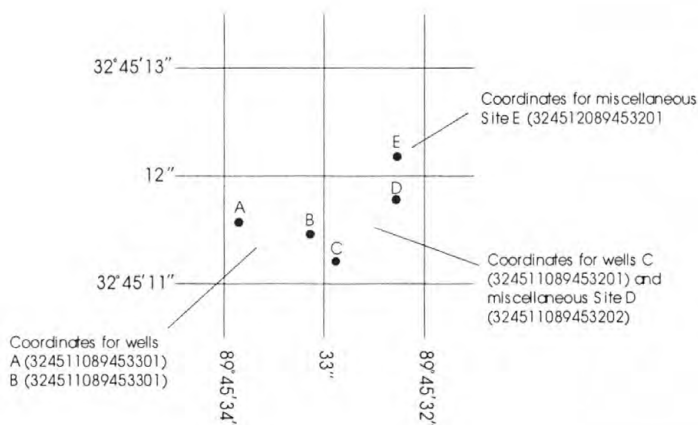


Figure 5.--System for numbering wells and miscellaneous sites (latitude and longitude).

## Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device, and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and crest-stage partial-record stations for which data are given in this report are shown in figures 7 and 8.

## Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with a water-stage recorder. Measurements of discharge are made using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI's), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of measurements, the curves are extended using: (1) logarithmic plotting, (2) velocity-area studies, (3) results of indirect measurements of peak discharge, such as slope area or contracted-opening measurements, and computations of flow over dams or weirs, or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage, at these stations the rate of change in stage is used as a factor in computing discharge. At some gaging stations, acoustic velocity meter (AVM) systems are used to compute discharge. The AVM system measures the stream's velocity at one or more paths in the cross section. Coefficients are developed to relate this path velocity to the mean velocity in the cross section. Because the AVM sensors are fixed in position, the adjustment coefficients generally vary with stage. Cross-sectional area curves are developed to relate stage, recorded as noted above, to cross section area. Discharge is computed by multiplying path velocity by the appropriate stage related coefficient and area.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

#### Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1992 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

**LOCATION.**--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

**DRAINAGE AREA.**--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

**PERIOD OF RECORD.**--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

**REVISED RECORDS.**--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised, "(m)" that only the instantaneous minimum was revised, and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

**GAGE.**--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see definition of terms), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

**REMARKS.**--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

**COOPERATION.**--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.



EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--For stations meeting certain criteria, all peak discharges and stages occurring during the water year and equal to or greater than a selected base discharge are presented under this heading. The peaks equal to or greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears in the summary statistics table at the bottom of the page.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, and in some cases EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph as appropriate.

Manuscript information for stations which only provide stage or partial-record data differs from that for continuous record discharge stations in that headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, and EXTREMES FOR CURRENT YEAR are included.

#### Data table of daily mean values

The daily table of discharge records for stream-gaging stations give mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN."); or in acre-feet (line headed "ACFT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontribution areas. At some stations monthly and (or) yearly observed discharges are adjusted or reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

#### Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS\_\_\_\_\_, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

#### Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS\_\_\_\_\_, will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below.), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.



The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two sections. The first section contains stage and discharge data for selected events at flood hydrograph stations. The second section is a table of annual maximum stage and discharge at crest-stage stations. The partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

#### Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

#### Accuracy of the Records

The accuracy of streamflow records depends primarily on: (1) The stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values, "good," within 10 percent, and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft<sup>3</sup>/s, to the nearest tenth between 1.0 and 10 ft<sup>3</sup>/s, to whole numbers between 10 and 1,000 ft<sup>3</sup>/s, and to 3 significant figures for more than 1,000 ft<sup>3</sup>/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

#### Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the Mississippi District. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the office whose address is given on the back of the title page of this report.

#### Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

#### Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records", as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 7.

#### Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and miscellaneous sites and for short-term studies appear in separate tables following the table of discharge measurements at miscellaneous sites.

#### On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are detailed in TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These references are listed in the PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see special networks and programs) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured except pH (maximum and minimum only), and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the District Office of the Mississippi District whose address is given on the back of the title page of this report.

#### Water Temperature

Water temperatures are measured at most of the water-quality stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

#### Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

#### Laboratory Measurements

Samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. Sediment samples are analyzed in the Geological Survey laboratory in Baton Rouge, Louisiana. All other samples are analyzed in the Geological Survey laboratories in Arvada, Colorado and Ocala, Florida. Methods used to analyze sediment samples and to compute sediment records are described in TWRI Book 5, Chapter C1. Methods used by the Geological Survey laboratories are given in TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4 and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

#### Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily, are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge," same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge," same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, NWIS. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sites and short-term studies are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Numerical codes have been assigned for agencies collecting and/or analyzing samples. A numerical code will not be given in a water-quality table when the collecting and analyzing agency is the U.S. Geological Survey. The agency codes that may be given in this report are as follows:

|       |                                          |       |                                         |
|-------|------------------------------------------|-------|-----------------------------------------|
| 300   | National Atmospheric Deposition Program/ | 55555 | Individual                              |
|       | National Trends Network                  | 66666 | Driller                                 |
| 810   | Corps of Engineers, U.S. Army            | 80020 | U.S. Geological Survey, National Water- |
| 1028  | U.S. Geological Survey                   |       | Quality Laboratory, Denver, Colorado    |
| 1053  | National Park Service                    | 81213 | U.S. Geological Survey, Water-Quality   |
| 3315  | Tennessee Valley Authority               |       | Service Unit, Ocala, Florida            |
| 9728  | Mississippi Department of Health         | 82213 | U.S. Geological Survey, Water-Quality   |
| 28001 | Mississippi Office of Pollution Control  |       | Service Unit, Baton Rouge, Louisiana    |
| 28002 | Mississippi Office of Geology            | 99001 | Private Contractor                      |
| 28003 | Mississippi Office of Land and           | 99999 | Other                                   |
|       | Water Resources                          |       |                                         |

Numerical codes have been assigned to describe the source of the sample and the conditions under which it was collected. A numerical code will not be given in a water-quality table except to describe unusual conditions. The codes that may be given in this report are as follows:

| Sample Source          | Sampling Condition                 |
|------------------------|------------------------------------|
| 1 Well head            | 0.10 Site was being pumped         |
| 2 Drill stem test      | 0.11 Site had been pumped recently |
| 5 Flow line            | 0.12 Nearby site tapping           |
| 8 Tank                 | same aquifer was being pumped      |
| 16 Casing leak         | 2 Undesignated                     |
| 26 Pump                | 4 Flowing                          |
| 27 Tap near well       | 8 Pumping                          |
| 28 Tap away from well  | 10 Open hole                       |
| 30 Pressure tank       | 15 Bailing                         |
| 31 Discharge Pipe      | 24 Water flooding                  |
| 33 Bailer              | 26 Production and development test |
| 80 After pressure tank | 27 Production by unknown method    |
| 1001 Wet deposition    | 30 Seeping                         |
| 1003 Landfill          |                                    |
| 1005 Landfill seep     |                                    |

Codes have been assigned to qualify each determined value, if necessary. The remark codes that may be given in this report are as follows:

- > Actual value is known to be greater than the value shown
- < Actual value is known to be less than the value shown
- & Biological organism estimated as dominant
- A Average value
- D Biological organism count equal to or greater than 15 percent (dominant)
- E Estimated value
- K Results based on colony count outside the acceptance range (non-ideal colony count)
- L Biological organism count less than 0.5 percent (organism may be observed rather than counted)
- M Presence of material verified but not quantified
- N Presumptive evidence of presence of material
- S Most probable value
- U Material specifically analyzed for but not detected
- V Analyte was detected in both the environmental sample and the associated blanks.

#### Dissolved Sulfate Analysis

In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Sulfate values during this period have not been corrected for this bias.



### Dissolved Trace-Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ( $\mu\text{g/L}$ ) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter ( $\text{ng/L}$ ). Data above the  $\mu\text{g/L}$  level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

### Change in National Trends Network Procedures

Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences, based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

### Records of Ground-Water Levels

Water-level data are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers. Locations of the observation wells in Mississippi are shown in figure 9.

### Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel tape or from a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lstd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

### Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

**LOCATION.**--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds), a landline location designation, the hydrologic-unit number, the distance and direction from a geographic point of reference, and the owner's name.

**AQUIFER.**--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

**WELL CHARACTERISTICS.**--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

**INSTRUMENTATION.**--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

**DATUM.**--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) sea level. It is reported with a precision depending on the method of determination.

**REMARKS.**--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

**PERIOD OF RECORD.**--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. Water levels above land surface datum are preceded by a minus (-). For wells equipped with recorders, only abbreviated tables are published. Generally, only water-level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. A hydrograph for a selected period of record follows each water-level table.

#### Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly, therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

#### Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

#### Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records, however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

#### ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at:

<http://water.usgs.gov>

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2-inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices.

## DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of Units (SI) on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves. See "Plankton."

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters.

Cubic foot per second per square mile [CFSM, (ft<sup>3</sup>/s)/mi<sup>2</sup>] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inch (IN, in.) as used in this report refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it.

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus faecalis*, *Streptococcus faecium*, *Streptococcus avium*, and their variants.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded animals. E.coli are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C ± 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C ± 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C  $\pm$  1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic organisms (invertebrates) are the group of animals inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligram per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m<sup>3</sup>), and periphyton and benthic organisms in grams per square meter (g/m<sup>2</sup>).

Dry mass refers to the mass of residue present after drying in an oven at 105 °C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash, and sediment in the sample. Dry mass is expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Bottom material: See "Bed material."

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume ( $\mu\text{m}^3$ ) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } 4/3 \pi r^3 \qquad \text{cone } 1/3 \pi r^2 h \qquad \text{cylinder } \pi r^2 h.$$

From cell volume, total algal biomass expressed as biovolume ( $\mu\text{m}^3/\text{mL}$ ) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases the water level can rise above the ground surface, yielding a flowing well.



Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site that meets either of the following conditions:

1. Stage or streamflow is recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
2. Water-quality, sediment, or other hydrologic measurements are recorded at least daily.

Control designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the station. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft<sup>3</sup>/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second, 448.8 gallons per minute, or 0.02832 cubic meters per second.

Cubic foot per second-day (CFS-DAY, Cfs-day, [ft<sup>3</sup>/s]/d) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage-height readings are referenced.

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days in a year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Instantaneous discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) content of water in equilibrium with air is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L CaCO<sub>3</sub>) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = - \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

where  $n_i$  is the number of individuals per taxon,  $n$  is the total number of individuals, and  $s$  is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that is occupied by a drainage system with a common outlet for its surface runoff (see "Drainage area").

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65°C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue.

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

Gage height (G.H.) is the water-surface elevation referenced to the gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ( $\text{CaCO}_3$ ).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA web site:

<http://www.co-ops.nos.noaa.gov/tidegloss.html>

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the U.S. Geological Survey. Each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_0 e^{-\lambda L}$$

where  $I_0$  is the source light intensity,  $I$  is the light intensity at length  $L$  (in meters) from the source,  $\lambda$  is the light-attenuation coefficient, and  $e$  is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. See NOAA web site:

<http://www.co-ops.nos.noaa.gov/tidegloss.html>

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G,  $\mu\text{g/g}$ ) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG,  $\mu\text{g/kg}$ ) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L,  $\mu\text{g/L}$ ) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

Microsiemens per centimeter (US/CM,  $\mu\text{S/cm}$ ) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L,  $\text{mg/L}$ ) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in  $\text{mg/L}$  and is based on the mass of dry sediment per liter of water-sediment mixture.

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic-invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L,  $\text{ng/L}$ ) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place. See NOAA web site:

<http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88>

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), suspended organic carbon (SOC), or total organic carbon (TOC).

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter ( $\text{m}^2$ ), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/total is the total number of organisms collected and enumerated in any particular sample.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter Code is a 5-digit number used in the U.S. Geological Survey's computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

| Classification  | Size (mm)       | Method of analyses   |
|-----------------|-----------------|----------------------|
| Clay. . . . .   | 0.00024 - 0.004 | Sedimentation.       |
| Silt. . . . .   | 0.004 - 0.062   | Sedimentation.       |
| Sand. . . . .   | 0.062 - 2.0     | Sedimentation/sieve. |
| Gravel. . . . . | 2.0 - 64.0      | Sieve.               |

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition or percent of total is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periodic station is a site where stage, discharge, sediment, chemical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed, "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Picocurie (PC, pCi) is one trillionth ( $1 \times 10^{-12}$ ) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields  $3.7 \times 10^{10}$  radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

Phytoplankton is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae (Cyanophyta) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Euglenoids (Euglenophyta) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark.

Fire algae (Pyrrhophyta) are a group of algae that are free-swimming unicells characterized by a red pigment spot.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCB's) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.



Polychlorinated naphthalenes (PCN's) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCB's) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [ $\text{mg C}/(\text{m}^2/\text{time})$ ] for periphyton and macrophytes or per volume [ $\text{mg C}/(\text{m}^3/\text{time})$ ] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [ $\text{mg O}/(\text{m}^2/\text{time})$ ] for periphyton and macrophytes or per volume [ $\text{mg O}/(\text{m}^3/\text{time})$ ] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ( $7Q_{10}$ ) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the  $7Q_{10}$  occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the  $7Q_{10}$ .

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

Sea level: See "National Geodetic Vertical Datum of 1929"

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

Suspended sediment is the sediment that is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The entire sample is used for the analysis.

Mean concentration of suspended sediment is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft<sup>3</sup>/s) x 0.0027.

Suspended-sediment load is a term that refers to material in suspension. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with total sediment discharge.

Seven-day 10-year low flow (7Q10, 7Q<sub>10</sub>) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q<sub>10</sub> has a 10-percent chance of occurring in any given year.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage: See "Gage height."

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglas strips for periphyton collection.

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

Surficial bed material is the top 0.1 to 0.2 ft of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminate sources.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

|              |                          |
|--------------|--------------------------|
| Kingdom..... | Animal                   |
| Phylum.....  | Arthropoda               |
| Class.....   | Insecta                  |
| Order.....   | Ephemeroptera            |
| Family.....  | Ephemeridae              |
| Genus.....   | <i>Hexagenia</i>         |
| Species..... | <i>Hexagenia limbata</i> |

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot is the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the total amount of a given constituent in a representative suspended-sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total". (Note that the word "total" does double duty here, indicating both that the sample consists of a suspended-sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total recoverable is the amount of a given constituent that is in solution after a representative suspended-sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and

suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile Organic Compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are man-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2000, is called the "2000 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.



## TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

## Book 1. Collection of Water Data by Direct Measurement

## Section D. Water Quality

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

## Book 2. Collection of Environmental Data

## Section D. Surface Geophysical Methods

- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.

## Section E. Subsurface Geophysical Methods

- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.

## Section F. Drilling and Sampling Methods

- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W. E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.

## Book 3. Applications of Hydraulics

## Section A. Surface-Water Techniques

- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurement at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 34 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

## TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY--Continued

- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathbun, Nobuhiro Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.
- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.
- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.

## Section B. Ground-Water Techniques

- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B4. *Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R. L. Cooley: USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E. J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 190 pages.

## Section C. Sedimentation and Erosion Techniques

- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by Thomas K. Edwards and G. Douglas Glysson: USGS--TWRI Book 3, Chapter C2. 1999. 89 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

## Book 4. Hydrologic Analysis and Interpretation

## Section A. Statistical Analysis

- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

## Section B. Surface Water

- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

## Section D. Interrelated Phases of the Hydrologic Cycle

- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

## Book 5. Laboratory Analysis

## Section A. Water Analysis

- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. J. Fishman and L. C. Friedman, editors: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.

## TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY--Continued

- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

## Section C. Sediment Analysis

- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

## Book 6. Modeling Techniques

## Section A. Ground Water

- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S. A. Leake and D. E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.
- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L. J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.
- 6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R. L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.
- 6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L. J. Torak: USGS--TWRI Book 6, Chapter A5. 1993. 243 pages.
- 6-A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS--TWRI Book 6, Chapter A6. 1996. 125 pages.

## Book 7. Automated Data Processing and Computations

## Section C. Computer Programs

- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

## Book 8. Instrumentation

## Section A. Instruments for Measurement of Water Level

- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

## Section B. Instruments for Measurement of Discharge

- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

## Book 9. Handbooks for Water-Resources Investigations

## Section A. National Field Manual for the Collection of Water-Quality Data

- 9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F. D. Wilde, D. B. Radtke, Jacob Gibs, and R. T. Iwatsubo: USGS--TWRI Book 9, Chapter A1. 1998. 47 pages.
- 9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F. D. Wilde, D. B. Radtke, Jacob Gibs, and R. T. Iwatsubo: USGS--TWRI Book 9, Chapter A2. 1998. 94 pages.

## TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY--Continued

- 9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F. D. Wilde, D. B. Radtke, Jacob Gibbs, and R. T. Iwatsubo: USGS--TWRI Book 9, Chapter A3. 1998. 75 pages.
- 9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F. D. Wilde, D. B. Radtke, Jacob Gibbs, and R. T. Iwatsubo: USGS--TWRI Book 9, Chapter A4. 1999. 156 pages.
- 9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F. D. Wilde, D. B. Radtke, Jacob Gibbs, and R. T. Iwatsubo: USGS--TWRI Book 9, Chapter A5. 1999. 149 pages.
- 9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F. D. Wilde and D. B. Radtke: USGS--TWRI Book 9, Chapter A6. 1998. Variously paginated.
- 9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, by D. N. Myers and F. D. Wilde: USGS--TWRI Book 9, Chapter A7. 1997 and 1999. Variously paginated.
- 9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom Material Samples*, by D. B. Radtke: USGS--TWRI Book 9, Chapter A8. 1998. 48 pages.
- 9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S. L. Lane and R. G. Fay: USGS--TWRI Book 9, Chapter A9. 1998. 60 pages.



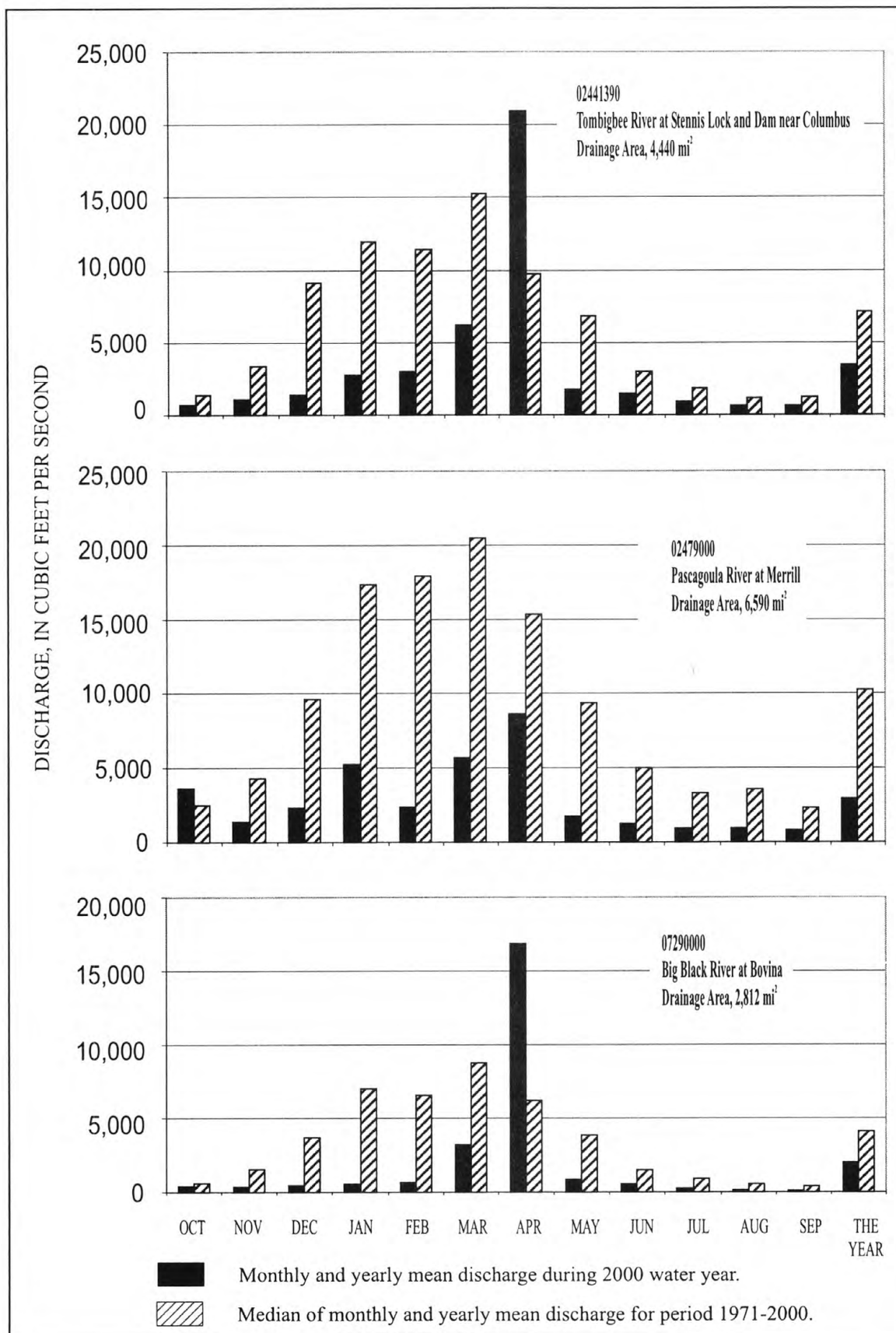


Figure 6.--Relation of discharge during 2000 water year with median discharge for period 1971-2000 for three representative gaging stations.

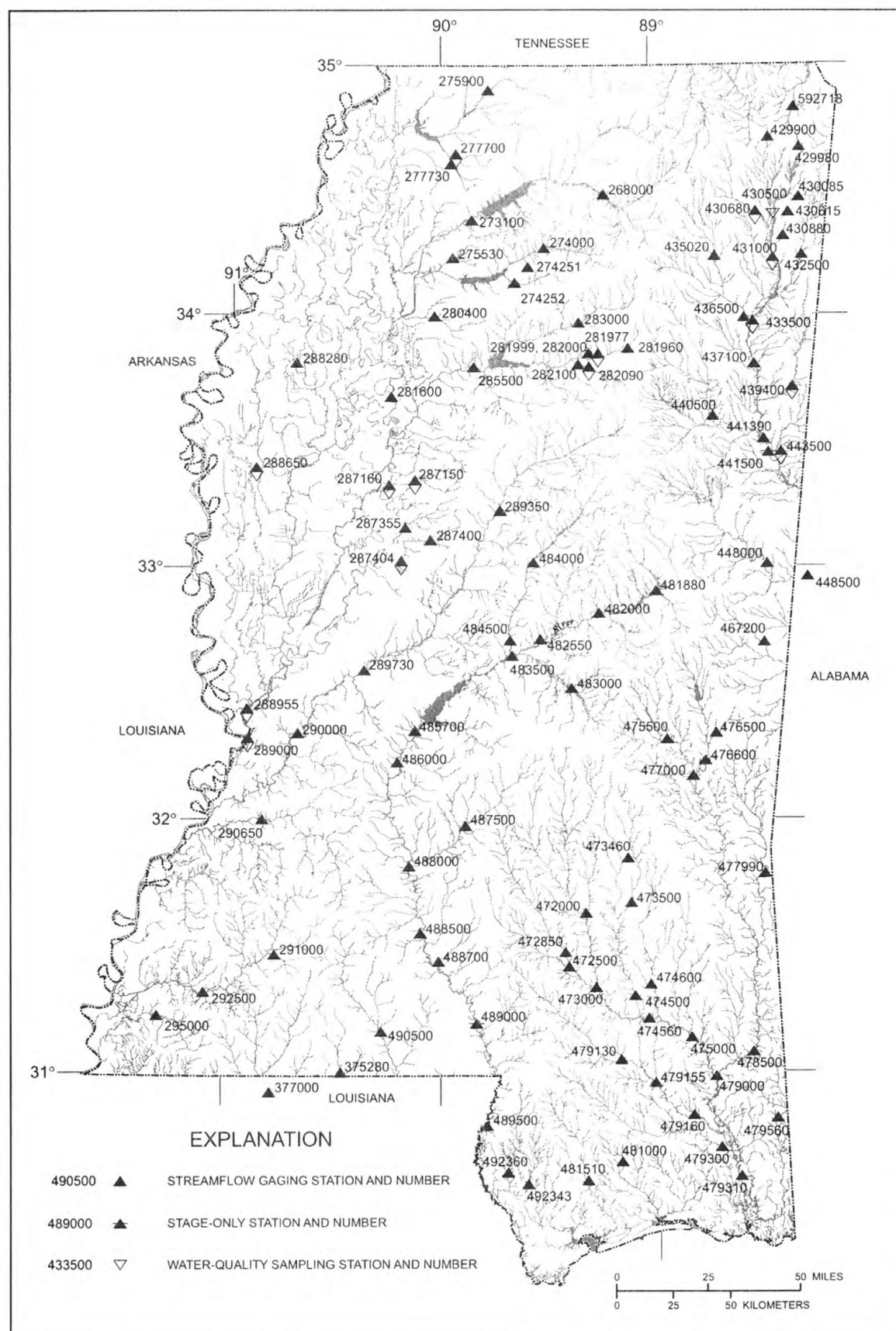


Figure 7.--Location of hydrologic-data stations.

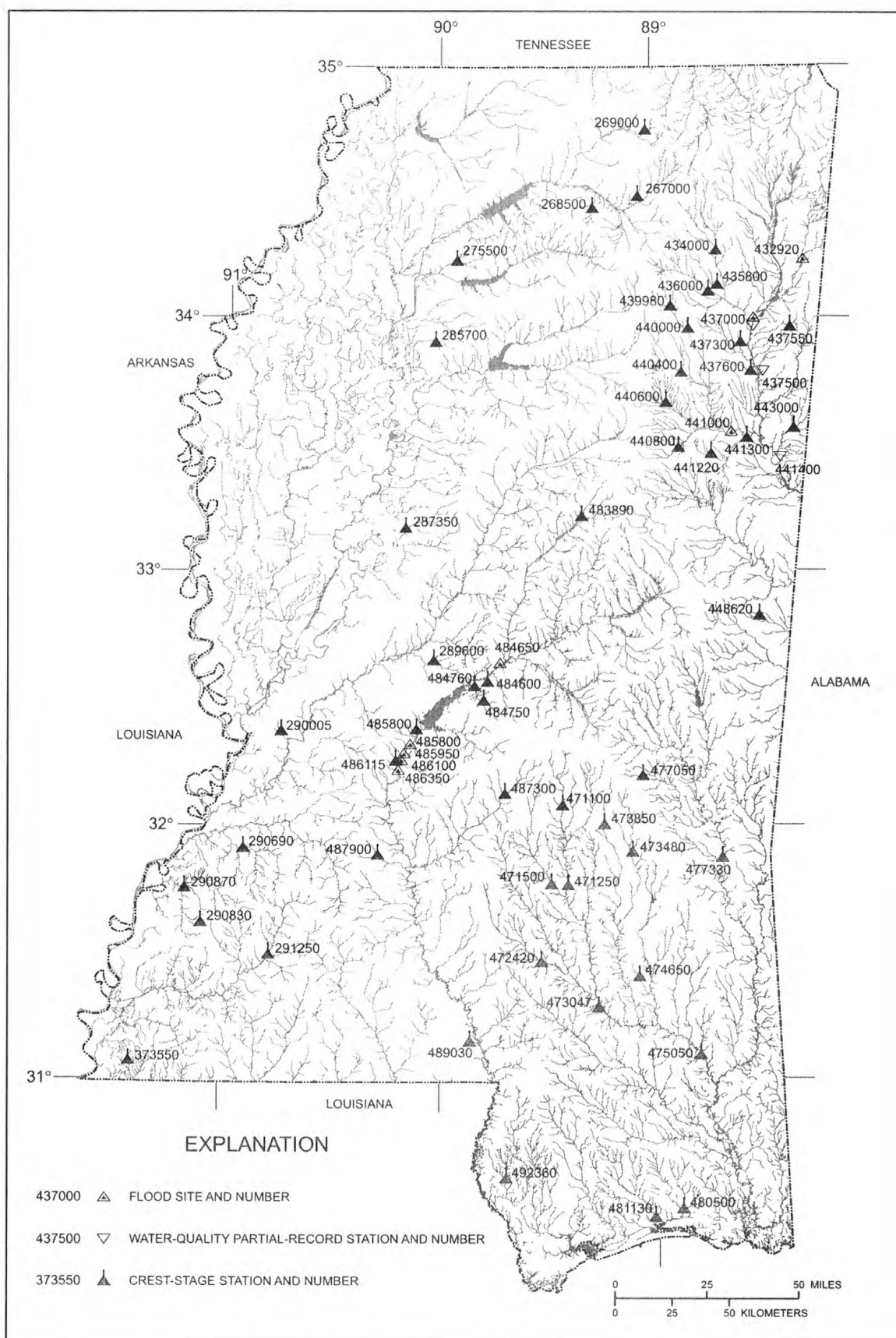


Figure 8.--Location of partial-record stations.

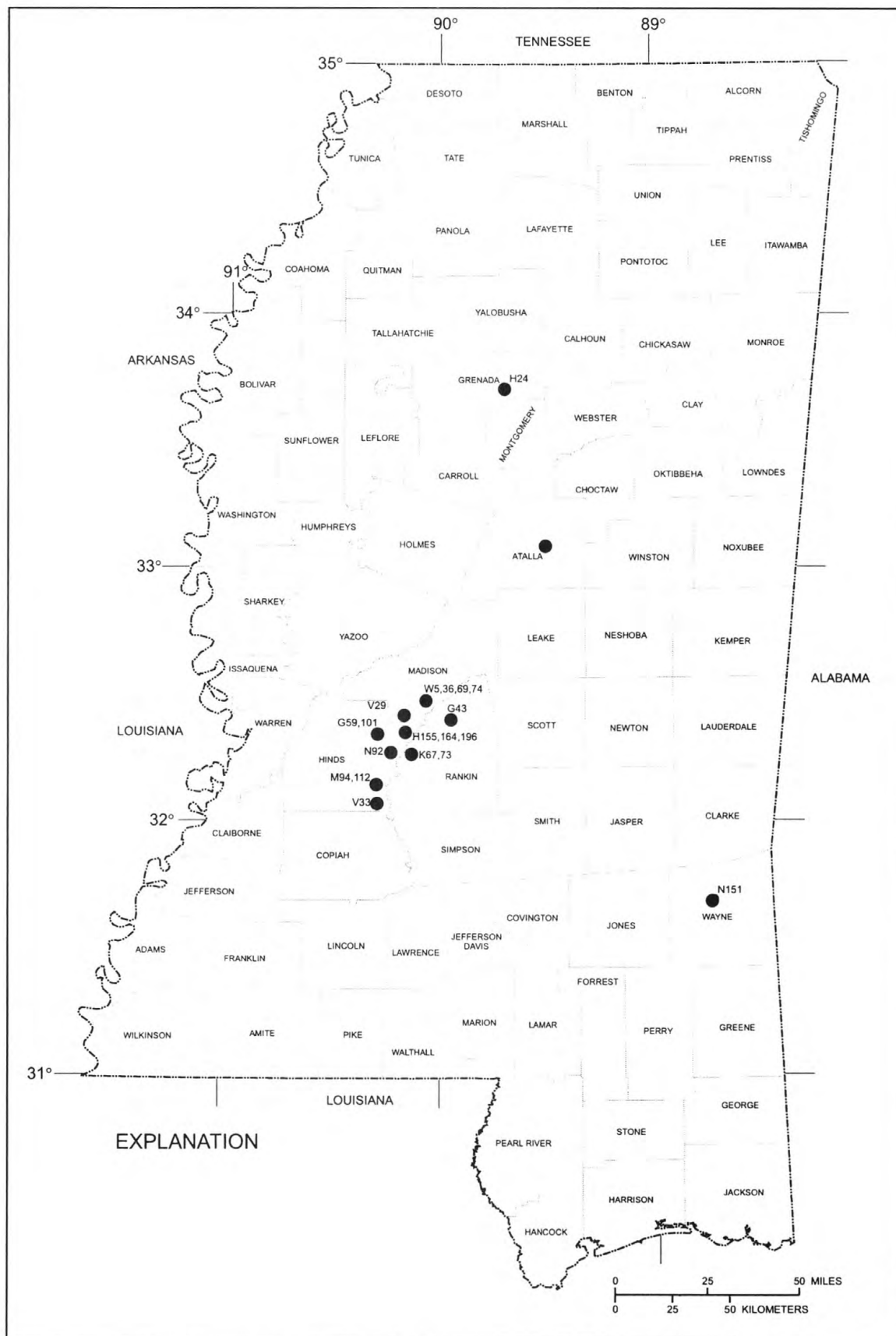


Figure 9.--Location of observation wells.



## STATION RECORDS, SURFACE WATER

33

## EASTERN GULF OF MEXICO BASINS

## MOBILE RIVER BASIN

02429900 · BIG BROWN CREEK NEAR BOONEVILLE, MS

LOCATION.--Lat 34°37'30", long 88°26'42", NW1/4 NE1/4 sec.27, T.5 S., R.8 E., Chickasaw Meridian, Prentiss County, Hydrologic Unit 03160101, on left bank, near upstream side of bridge on State Highway 30, 2.5 mi upstream from Martin Creek, 8.0 mi east of Highway 45 at Booneville, and 14.2 mi upstream from mouth.

DRAINAGE AREA.--26.7 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1952-56, 1958-60, 1972, annual maximum stage water years 1951-60, and annual maximum discharge, water years 1961-73. June 1973 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 328.66 ft above sea level. Prior to June 1973, crest-stage gage at site was at datum 78.46 ft lower and from June 1973 until November 1998 gage was at county road 0.4 mi downstream at datum, 2.10 ft lower.

REMARKS.--Estimated daily discharges: Oct. 17-19, Nov. 19 - Dec. 2, Dec. 12-14, and Feb. 2-23. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Jan. 23 | 0245 | *3,510                            | *22.92              | Mar. 13 | 1115 | 1,660                             | 17.38               |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC    | JAN   | FEB  | MAR  | APR  | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|------|--------|-------|------|------|------|--------|--------|-------|-------|-------|
| 1     | 2.1   | 2.5  | e2.0   | 35    | 328  | 53   | 74   | 35     | 23     | 12    | 1.2   | .13   |
| 2     | 1.9   | 2.6  | e2.0   | 217   | e200 | 53   | 60   | 30     | 26     | 8.4   | 1.1   | .13   |
| 3     | 51    | 2.3  | 2.0    | 115   | e130 | 137  | 54   | 26     | 17     | 6.4   | 1.1   | .12   |
| 4     | .81   | 3.7  | 7.5    | 58    | e100 | 72   | 126  | 24     | 15     | 4.6   | 1.1   | .12   |
| 5     | .55   | 1.8  | 8.2    | 43    | e80  | 65   | 71   | 76     | 10     | 2.7   | .95   | .12   |
| 6     | .56   | 1.5  | 9.2    | 41    | e80  | 142  | 66   | 515    | 7.0    | 1.3   | .86   | .12   |
| 7     | .66   | 1.8  | 13     | 41    | e100 | 74   | 52   | 94     | 4.9    | .86   | .80   | .11   |
| 8     | .84   | 2.0  | 15     | 191   | e90  | 69   | 48   | 58     | 3.5    | .60   | .75   | .11   |
| 9     | .85   | 2.3  | 13     | 396   | e80  | 158  | 45   | 43     | 2.2    | 3.4   | .71   | .09   |
| 10    | .94   | 2.6  | 13     | 109   | e100 | 86   | 40   | 37     | 1.3    | 3.7   | .65   | .09   |
| 11    | .87   | 3.0  | 25     | 80    | e90  | 84   | 36   | 30     | 1.4    | 13    | .61   | .08   |
| 12    | 1.1   | 2.1  | e80    | 70    | e120 | 73   | 30   | 27     | 1.1    | 9.8   | .56   | .08   |
| 13    | 1.1   | 4.4  | e300   | 101   | e90  | 848  | 29   | 30     | 1.8    | 3.8   | .53   | .08   |
| 14    | 1.2   | 3.7  | e50    | 526   | e70  | 394  | 29   | 23     | 5.1    | 1.7   | .49   | .12   |
| 15    | 2.0   | 3.2  | 23     | 143   | e60  | 183  | 83   | 21     | 3.9    | .96   | .46   | .13   |
| 16    | 1.2   | 2.2  | 21     | 104   | e60  | 117  | 39   | 19     | 1.6    | .67   | .42   | .16   |
| 17    | e1.2  | 2.2  | 18     | 90    | e80  | 92   | 32   | 17     | .97    | .69   | .40   | .19   |
| 18    | e1.2  | 2.0  | 15     | 135   | e70  | 77   | 30   | 17     | .68    | .72   | .36   | .30   |
| 19    | e1.1  | e2.0 | 25     | 85    | e60  | 66   | 29   | 16     | .71    | .80   | .35   | .38   |
| 20    | 1.1   | e2.0 | 20     | 69    | e50  | 76   | 26   | 13     | .85    | .85   | .35   | .41   |
| 21    | 1.4   | e2.0 | 17     | 57    | e45  | 73   | 24   | 12     | 1.1    | .91   | .35   | .64   |
| 22    | 1.5   | e2.0 | 31     | 932   | e40  | 56   | 22   | 15     | 1.0    | 1.0   | .31   | .95   |
| 23    | 1.3   | e2.0 | 33     | 1880  | e35  | 53   | 21   | 13     | 9.0    | 1.0   | .32   | 1.5   |
| 24    | 1.3   | e2.0 | 70     | 331   | 31   | 63   | 32   | 14     | 184    | 1.2   | .27   | 2.2   |
| 25    | 1.3   | e2.0 | 31     | 246   | 31   | 50   | 49   | 9.4    | 29     | 1.2   | .30   | 2.6   |
| 26    | 1.7   | e2.0 | 44     | 212   | 30   | 43   | 154  | 12     | 19     | 5.1   | .25   | 2.7   |
| 27    | 1.7   | e2.0 | 56     | 191   | 86   | 41   | 90   | 10     | 25     | 2.3   | .23   | 3.0   |
| 28    | 1.7   | e2.0 | 247    | 176   | 112  | 39   | 50   | 7.6    | 16     | 1.8   | .18   | 3.2   |
| 29    | 1.7   | e2.0 | 85     | 224   | ---  | 76   | 47   | 6.1    | 14     | 1.8   | .17   | 4.0   |
| 30    | 2.0   | e2.0 | 51     | 360   | ---  | 53   | 50   | 14     | 15     | 1.6   | .15   | 4.2   |
| 31    | 2.2   | ---  | 39     | 495   | ---  | 103  | ---  | 20     | ---    | 1.5   | .15   | ---   |
| TOTAL | 90.08 | 69.9 | 1365.9 | 7753  | 2448 | 3569 | 1538 | 1284.1 | 441.11 | 96.36 | 16.43 | 28.06 |
| MEAN  | 2.91  | 2.33 | 44.1   | 250   | 87.4 | 115  | 51.3 | 41.4   | 14.7   | 3.11  | .53   | .94   |
| MAX   | 51    | 4.4  | 300    | 1880  | 328  | 848  | 154  | 515    | 184    | 13    | 1.2   | 4.2   |
| MIN   | .55   | 1.5  | 2.0    | 35    | 30   | 39   | 21   | 6.1    | .68    | .60   | .15   | .08   |
| MED   | 1.2   | 2.0  | 23     | 135   | 80   | 73   | 46   | 20     | 5.0    | 1.6   | .42   | .14   |
| CFSM  | .11   | .09  | 1.63   | 9.23  | 3.23 | 4.25 | 1.89 | 1.53   | .54    | .11   | .02   | .03   |
| IN.   | .12   | .10  | 1.87   | 10.64 | 3.36 | 4.90 | 2.11 | 1.76   | .61    | .13   | .02   | .04   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1999, BY WATER YEAR (WY)

|      | MEAN | 8.96 | 36.1 | 69.5 | 87.9 | 81.3 | 92.9 | 79.1 | 67.8 | 33.4 | 11.6 | 6.62 | 7.09 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 56.0 | 139  | 218  | 298  | 220  | 264  | 267  | 451  | 187  | 73.8 | 40.2 | 42.7 |      |
| (WY) | 1976 | 1978 | 1992 | 1974 | 1990 | 1980 | 1983 | 1991 | 1989 | 1989 | 1992 | 1979 |      |
| MIN  | .59  | 1.00 | 4.57 | 7.99 | 25.6 | 32.9 | 12.6 | 6.44 | .54  | 1.03 | .18  | .38  |      |
| (WY) | 1979 | 1982 | 1982 | 1981 | 1977 | 1988 | 1986 | 1988 | 1988 | 1977 | 1988 | 1988 |      |

## SUMMARY STATISTICS

## FOR 1998 CALENDAR YEAR

## FOR 1999 WATER YEAR

## WATER YEARS 1973 - 1999

|                          |          |          |       |
|--------------------------|----------|----------|-------|
| ANNUAL TOTAL             | 11173.55 | 18699.94 |       |
| ANNUAL MEAN              | 30.6     | 51.2     | 48.5  |
| HIGHEST ANNUAL MEAN      |          |          | 94.6  |
| LOWEST ANNUAL MEAN       |          |          | 15.0  |
| HIGHEST DAILY MEAN       | 568      | 1880     | 2580  |
| LOWEST DAILY MEAN        | .49      | .08      | .08   |
| ANNUAL SEVEN-DAY MINIMUM | .51      | .09      | .09   |
| INSTANTANEOUS PEAK FLOW  |          | 3510     | 3900  |
| INSTANTANEOUS PEAK STAGE |          | 22.92    | 22.92 |
| ANNUAL RUNOFF (CFSM)     | 1.13     | 1.89     | 1.79  |
| ANNUAL RUNOFF (INCHES)   | 15.34    | 25.67    | 24.30 |
| 10 PERCENT EXCEEDS       | 70       | 106      | 94    |
| 50 PERCENT EXCEEDS       | 8.8      | 13       | 20    |
| 90 PERCENT EXCEEDS       | .65      | .44      | 1.0   |

e Estimated

## 02429900 BIG BROWN CREEK NEAR BOONEVILLE, MS--Continued

LOCATION.--Lat 34°37'30", long 88°26'42", NW1/4 NE1/4 sec.27, T.5 S., R.8 E., Chickasaw Meridian, Prentiss County, Hydrologic Unit 03160101, on left bank, near upstream side of bridge on State Highway 30, 2.5 mi upstream from Martin Creek, 8.0 mi east of Highway 45 at Booneville, and 14.2 mi upstream from mouth.

DRAINAGE AREA.--26.7 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1952-56, 1958-60, 1972, annual maximum stage water years 1951-60, and annual maximum discharge, water years 1961-73. June 1973 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 328.66 ft above sea level. Prior to June 1973, crest-stage gage at site was at datum 78.46 ft lower and from June 1973 until November 1998 gage was at county road 0.4 mi downstream at datum, 2.10 ft lower.

REMARKS.--Estimated daily discharges: Oct. 1-31, Jul. 16-31, and Aug 13 - Sept. 30. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 3 | 0015 | *1,230                            | *15.63              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB   | MAR    | APR  | MAY    | JUN    | JUL   | AUG  | SEP   |
|-------|-------|--------|--------|--------|-------|--------|------|--------|--------|-------|------|-------|
| 1     | e.90  | 27     | .21    | .44    | 8.0   | 18     | 26   | 16     | .98    | 4.5   | .80  | e.11  |
| 2     | e.80  | 53     | .27    | .37    | 6.1   | 17     | 570  | 14     | .59    | 2.3   | .30  | e.10  |
| 3     | e1.0  | 14     | .42    | 1.8    | 6.2   | 16     | 640  | 13     | .53    | 2.4   | .40  | e.10  |
| 4     | e1.2  | 3.9    | 1.5    | 18     | 5.9   | 13     | 258  | 16     | 1.3    | 1.9   | .34  | e.10  |
| 5     | e1.3  | 2.3    | 2.3    | 6.8    | 4.2   | 12     | 114  | 13     | 3.1    | .98   | .37  | e.10  |
| 6     | e1.4  | 2.0    | 6.3    | 2.9    | 4.3   | 11     | 80   | 8.8    | 5.3    | .90   | .40  | e.14  |
| 7     | e1.3  | 1.1    | 2.2    | 1.4    | 5.3   | 9.2    | 61   | 6.3    | 3.9    | .75   | .30  | e.19  |
| 8     | e1.3  | 1.2    | 1.1    | 1.3    | 5.2   | 8.8    | 58   | 4.6    | 3.3    | .47   | .27  | e5.9  |
| 9     | e1.4  | .75    | 2.8    | 11     | 4.7   | 8.4    | 44   | 3.3    | 2.6    | .32   | .24  | e9.3  |
| 10    | e2.2  | .63    | 7.7    | 9.4    | 5.0   | 17     | 38   | 8.9    | 2.5    | .43   | .16  | e1.3  |
| 11    | e.60  | .56    | 7.2    | 4.0    | 5.5   | 94     | 39   | 7.0    | 1.7    | .64   | .17  | e.65  |
| 12    | e.50  | .57    | 17     | 1.7    | 12    | 33     | 54   | 4.4    | 1.2    | .77   | .14  | e1.6  |
| 13    | e.60  | .45    | 47     | 2.3    | 23    | 24     | 105  | 5.0    | 1.0    | 1.4   | e.14 | e1.1  |
| 14    | e.60  | .38    | 16     | 1.6    | 46    | 20     | 77   | 3.0    | .92    | 2.4   | e.12 | e.45  |
| 15    | e.50  | .35    | 10     | .66    | 20    | 19     | 55   | 1.2    | 1.3    | 2.4   | e.11 | e.30  |
| 16    | e.50  | .29    | 6.9    | 1.7    | 16    | 21     | 45   | .44    | 1.7    | e1.3  | e.11 | e.23  |
| 17    | e.60  | .24    | 7.3    | 4.9    | 16    | 19     | 42   | .94    | 4.3    | e.51  | e.11 | e.19  |
| 18    | e.90  | .27    | 5.9    | 6.3    | 30    | 17     | 34   | .94    | 17     | e.34  | e.10 | e.19  |
| 19    | e1.0  | .21    | 6.2    | 4.1    | 19    | 262    | 31   | .61    | 11     | e.34  | e.11 | e.18  |
| 20    | e1.5  | 2.0    | 6.4    | 3.4    | 15    | 133    | 28   | 1.0    | 5.8    | e.28  | e.10 | e.16  |
| 21    | e1.1  | 5.7    | 7.1    | 1.3    | 14    | 63     | 25   | 3.2    | 6.0    | e.56  | e.11 | e.48  |
| 22    | e1.0  | 1.7    | 7.8    | 6.1    | 13    | 42     | 23   | 3.2    | 3.2    | e.38  | e.11 | e.38  |
| 23    | e.90  | .65    | 4.5    | 21     | 13    | 34     | 22   | 2.6    | 1.9    | e.26  | e.11 | e.41  |
| 24    | e1.1  | .87    | 3.2    | 10     | 12    | 29     | 77   | 5.9    | 1.3    | e.26  | e.12 | e.71  |
| 25    | e1.3  | 1.5    | 2.6    | 7.0    | 11    | 53     | 48   | 5.0    | 1.3    | e.19  | e.12 | e1.4  |
| 26    | e1.4  | 6.9    | 2.0    | 5.4    | 13    | 105    | 29   | 3.6    | .86    | e.18  | e2.1 | e.91  |
| 27    | e1.5  | 3.9    | 1.7    | 4.0    | 80    | 54     | 25   | 6.0    | 2.9    | e.19  | e.87 | e.59  |
| 28    | e1.5  | 1.5    | 1.4    | 5.2    | 30    | 38     | 25   | 11     | 3.8    | e.16  | e.19 | e.28  |
| 29    | e1.5  | .21    | .75    | 15     | 23    | 32     | 20   | 5.7    | 7.9    | e.28  | e.14 | e.30  |
| 30    | e1.4  | .21    | .75    | 15     | ---   | 30     | 17   | 2.6    | 6.7    | e.68  | e.12 | e.34  |
| 31    | e1.7  | ---    | .54    | 10     | ---   | 27     | ---  | 1.8    | ---    | e.56  | e.11 | ---   |
| TOTAL | 47.10 | 134.34 | 187.04 | 184.07 | 466.4 | 1279.4 | 2710 | 179.03 | 105.88 | 29.03 | 8.89 | 28.19 |
| MEAN  | 1.52  | 4.48   | 6.03   | 5.94   | 16.1  | 41.3   | 90.3 | 5.78   | 3.53   | .94   | .29  | .94   |
| MAX   | 14    | 53     | 47     | 21     | 80    | 262    | 640  | 16     | 17     | 4.5   | 2.1  | 9.3   |
| MIN   | .50   | .21    | .21    | .37    | 4.2   | 8.4    | 17   | .44    | .53    | .16   | .10  | .10   |
| MED   | 1.1   | .99    | 3.2    | 4.1    | 13    | 24     | 43   | 4.6    | 2.5    | .56   | .14  | .32   |
| CFSM  | .06   | .17    | .22    | .22    | .59   | 1.52   | 3.33 | .21    | .13    | .03   | .01  | .03   |
| IN.   | .06   | .18    | .26    | .25    | .64   | 1.76   | 3.72 | .25    | .15    | .04   | .01  | .04   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)

|      | MEAN | 8.68 | 34.9 | 67.2 | 84.9 | 78.8 | 91.0 | 79.5 | 65.5 | 32.3 | 11.2 | 6.40 | 6.87 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 56.0 | 139  | 218  | 298  | 220  | 264  | 267  | 451  | 187  | 73.8 | 40.2 | 42.7 |      |
| (WY) | 1976 | 1978 | 1992 | 1974 | 1990 | 1980 | 1983 | 1991 | 1989 | 1989 | 1992 | 1979 |      |
| MIN  | .59  | 1.00 | 4.57 | 5.94 | 16.1 | 32.9 | 12.6 | 5.78 | .54  | .94  | .18  | .38  |      |
| (WY) | 1979 | 1982 | 1982 | 2000 | 2000 | 1988 | 1986 | 2000 | 1988 | 2000 | 1988 | 1988 |      |

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1973 - 2000

|                          |          |         |        |
|--------------------------|----------|---------|--------|
| ANNUAL TOTAL             | 17542.54 | 5359.37 |        |
| ANNUAL MEAN              | 48.1     | 14.6    | 47.2   |
| HIGHEST ANNUAL MEAN      |          |         | 94.6   |
| LOWEST ANNUAL MEAN       |          |         | 14.6   |
| HIGHEST DAILY MEAN       | 1880     | Jan 23  | 640    |
| LOWEST DAILY MEAN        | .08      | Sep 11  | .10    |
| ANNUAL SEVEN-DAY MINIMUM | .09      | Sep 7   | .11    |
| INSTANTANEOUS PEAK FLOW  |          |         | Aug 30 |
| INSTANTANEOUS PEAK STAGE |          |         | Apr 3  |
| ANNUAL RUNOFF (CFSM)     | 1.77     | .54     | 22.92  |
| ANNUAL RUNOFF (INCHES)   | 24.08    | 7.36    | 1.74   |
| 10 PERCENT EXCEEDS       | 102      | 30      | 23.67  |
| 50 PERCENT EXCEEDS       | 6.9      | 2.3     | 92     |
| 90 PERCENT EXCEEDS       | .34      | .21     | 18     |
|                          |          |         | .97    |

e Estimated

## 02429980 POLLARD MILL BRANCH AT PADEN, MS

LOCATION.--Lat 34°39'13", long 88°14'53", in SW1/4 SE1/4 sec.9, T.5 S., R.10 E., Chickasaw Meridian, Tishomingo County, Hydrologic Unit 03160101, on left bank 30 ft upstream from culvert on State Highway 30, 0.8 mi east of Paden.

DRAINAGE AREA.--2.01 mi<sup>2</sup>.

PERIOD OF RECORD.--Annual maximums, water years 1967-72. October 1972 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder and culvert control. Elevation of gage is 440 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 9 - Jan. 11, May 26, 30, 31, Jun. 10-16, 20-25, 30, Jul. 5, 6, 9-13, 18-31, and Aug. 1-9. Records poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 225 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 2 | 2045 | *53                               | *3.21               |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|-------|-------|-------|------|-------|-------|-------|-------|------|------|------|------|
| 1     | 3.0   | 17    | e3.6  | e2.5 | 2.9   | 3.7   | 7.2   | 6.1   | 2.5  | 2.1  | e1.9 | 2.0  |
| 2     | 2.9   | 12    | e3.7  | e2.5 | 2.5   | 3.5   | 29    | 6.1   | 2.5  | 2.5  | e1.9 | 2.1  |
| 3     | 3.1   | 5.7   | e4.2  | e4.5 | 2.8   | 3.6   | 29    | 6.0   | 2.5  | 2.4  | e1.8 | 2.1  |
| 4     | 3.8   | 5.4   | e4.5  | e3.1 | 3.6   | 3.4   | 15    | 6.1   | 3.0  | 2.0  | e1.8 | 1.9  |
| 5     | 3.8   | 5.2   | e4.2  | e2.5 | 3.8   | 3.2   | 9.9   | 6.0   | 3.8  | e2.2 | e2.1 | 1.3  |
| 6     | 3.8   | 5.4   | e4.4  | e2.5 | 3.5   | 3.1   | 8.9   | 5.2   | 2.9  | e2.0 | e2.2 | 1.4  |
| 7     | 3.7   | 5.6   | e5.1  | e2.8 | 3.9   | 3.0   | 8.4   | 5.2   | 2.7  | 4.1  | e2.1 | 2.3  |
| 8     | 4.2   | 5.8   | e5.3  | e2.8 | 3.9   | 3.1   | 8.8   | 5.1   | 2.5  | 2.4  | e2.2 | 4.1  |
| 9     | 6.1   | e6.5  | e5.5  | e4.2 | 3.9   | 3.3   | 7.8   | 4.9   | 2.5  | e2.0 | e2.1 | 2.4  |
| 10    | 4.1   | e6.5  | e6.5  | e3.8 | 3.9   | 3.3   | 7.4   | 5.2   | e2.4 | e1.9 | 2.0  | 1.8  |
| 11    | 4.2   | e8.8  | e5.6  | e2.5 | 3.8   | 4.3   | 8.2   | 4.8   | e2.4 | e1.9 | 2.1  | 1.8  |
| 12    | 4.5   | e8.3  | e12   | 2.1  | 4.1   | 4.4   | 7.8   | 4.8   | e2.3 | e2.0 | 2.1  | 2.0  |
| 13    | 4.8   | e7.4  | e7.0  | 2.0  | 6.4   | 4.2   | 15    | 4.6   | e2.4 | e2.0 | 2.0  | 1.7  |
| 14    | 4.9   | e7.4  | e3.8  | 2.1  | 5.2   | 4.2   | 9.9   | 4.6   | e2.5 | 3.1  | 2.1  | 1.6  |
| 15    | 5.0   | e7.4  | e4.2  | 2.4  | 3.5   | 4.2   | 8.5   | 4.5   | e2.4 | 4.5  | 2.1  | 1.4  |
| 16    | 5.2   | e6.5  | e4.2  | 3.1  | 3.0   | 4.5   | 7.8   | 4.2   | e2.3 | 3.5  | 2.1  | 1.4  |
| 17    | 5.5   | e6.0  | e4.5  | 3.6  | 3.5   | 4.1   | 7.9   | 4.0   | 4.8  | 2.5  | 2.2  | 1.4  |
| 18    | 5.3   | e4.9  | e4.2  | 3.1  | 3.8   | 4.3   | 7.4   | 3.4   | 3.8  | e2.0 | 1.9  | 1.4  |
| 19    | 5.4   | e6.5  | e4.2  | 3.1  | 3.2   | 12    | 7.3   | 3.2   | 2.5  | e1.8 | 1.9  | 1.4  |
| 20    | 5.4   | e10   | e5.2  | 2.9  | 3.1   | 7.1   | 7.2   | 3.4   | e2.6 | e2.1 | 1.9  | 1.7  |
| 21    | 5.3   | e8.8  | e6.0  | 2.8  | 2.6   | 5.8   | 7.4   | 3.4   | e2.4 | e2.0 | 2.1  | 1.7  |
| 22    | 5.4   | e6.5  | e4.9  | 5.0  | 2.6   | 5.4   | 7.4   | 3.2   | e2.3 | e2.0 | 2.1  | 1.4  |
| 23    | 5.2   | e4.9  | e4.5  | 4.0  | 2.7   | 5.2   | 7.1   | 3.4   | e2.3 | e1.9 | 2.2  | 3.0  |
| 24    | 5.3   | e5.2  | e4.2  | 2.9  | 3.5   | 5.1   | 11    | 3.2   | e2.2 | e1.8 | 2.0  | 2.8  |
| 25    | 5.3   | e6.0  | e4.2  | 2.5  | 3.7   | 8.2   | 7.6   | 3.1   | e2.2 | e1.8 | 2.2  | 2.2  |
| 26    | 5.2   | e4.5  | e3.8  | 2.4  | 5.1   | 7.7   | 7.1   | e2.9  | 2.2  | e1.6 | 3.6  | 1.9  |
| 27    | 5.2   | e3.8  | e4.5  | 2.0  | 6.0   | 6.5   | 7.4   | 3.3   | 2.6  | e1.8 | 2.4  | 1.9  |
| 28    | 5.2   | e3.8  | e3.1  | 2.6  | 4.0   | 6.0   | 7.0   | 3.7   | 2.2  | e2.0 | 2.2  | 1.8  |
| 29    | 5.3   | e3.5  | e3.1  | 4.0  | 3.5   | 5.7   | 6.5   | 3.1   | 3.3  | e2.1 | 2.1  | 1.8  |
| 30    | 5.9   | e3.5  | e2.5  | 2.8  | ---   | 5.5   | 6.3   | e2.7  | e2.2 | e2.1 | 2.0  | 2.2  |
| 31    | 6.5   | ---   | e3.8  | 2.8  | ---   | 5.7   | ---   | e2.6  | ---  | e1.9 | 2.0  | ---  |
| TOTAL | 148.5 | 198.8 | 146.5 | 91.9 | 108.0 | 153.3 | 293.2 | 132.0 | 79.2 | 70.0 | 65.4 | 57.9 |
| MEAN  | 4.79  | 6.63  | 4.73  | 2.96 | 3.72  | 4.95  | 9.77  | 4.26  | 2.64 | 2.26 | 2.11 | 1.93 |
| MAX   | 6.5   | 17    | 12    | 5.0  | 6.4   | 12    | 29    | 6.1   | 4.8  | 4.5  | 3.6  | 4.1  |
| MIN   | 2.9   | 3.5   | 2.5   | 2.0  | 2.5   | 3.0   | 6.3   | 2.6   | 2.2  | 1.6  | 1.8  | 1.3  |
| MED   | 5.2   | 6.0   | 4.2   | 2.8  | 3.6   | 4.3   | 7.8   | 4.2   | 2.5  | 2.0  | 2.1  | 1.8  |
| CFSM  | 2.38  | 3.30  | 2.35  | 1.47 | 1.85  | 2.46  | 4.86  | 2.12  | 1.31 | 1.12 | 1.05 | .96  |
| IN.   | 2.75  | 3.68  | 2.71  | 1.70 | 2.00  | 2.84  | 5.43  | 2.44  | 1.47 | 1.30 | 1.21 | 1.07 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)

|      | MEAN | 4.46 | 5.90 | 7.20 | 7.20 | 7.16 | 8.77 | 7.67 | 7.19 | 4.84 | 4.23 | 3.99 | 4.31 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 7.30 | 14.0 | 17.7 | 25.2 | 16.0 | 26.4 | 15.8 | 27.7 | 8.49 | 6.73 | 6.31 | 15.4 |      |
| (WY) | 1978 | 1978 | 1983 | 1974 | 1991 | 1973 | 1983 | 1991 | 1997 | 1994 | 1979 | 1979 |      |
| MIN  | 3.10 | 3.44 | 3.35 | 2.96 | 3.72 | 4.47 | 3.74 | 2.65 | 2.30 | 2.26 | 2.11 | 1.93 |      |
| (WY) | 1983 | 1991 | 1994 | 2000 | 2000 | 1986 | 1986 | 1988 | 1988 | 2000 | 2000 | 2000 |      |

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1973 - 2000

|                          | ANNUAL TOTAL | 2078.8 | 1544.7 | 6.07  |             |
|--------------------------|--------------|--------|--------|-------|-------------|
| ANNUAL MEAN              |              | 5.70   | 4.22   | 9.88  | 1973        |
| HIGHEST ANNUAL MEAN      |              |        |        | 3.79  | 1988        |
| LOWEST ANNUAL MEAN       |              |        |        |       |             |
| HIGHEST DAILY MEAN       | 103          | Jan 23 | 29     | 328   | May 26 1991 |
| LOWEST DAILY MEAN        | 1.7          | Sep 12 | 1.3    | 1.3   | Sep 5 2000  |
| ANNUAL SEVEN-DAY MINIMUM | 2.4          | Sep 6  | 1.5    | 1.5   | Sep 13 2000 |
| INSTANTANEOUS PEAK FLOW  |              |        | 53     | 1200  | May 26 1991 |
| INSTANTANEOUS PEAK STAGE |              |        | 3.21   | 9.02  | May 26 1991 |
| ANNUAL RUNOFF (CFSM)     |              | 2.83   | 2.10   | 3.02  |             |
| ANNUAL RUNOFF (INCHES)   |              | 38.47  | 28.59  | 41.04 |             |
| 10 PERCENT EXCEEDS       |              | 8.0    | 7.2    | 9.0   |             |
| 50 PERCENT EXCEEDS       |              | 4.9    | 3.6    | 4.4   |             |
| 90 PERCENT EXCEEDS       |              | 3.1    | 2.0    | 3.0   |             |

e Estimated

## MOBILE RIVER BASIN

02430085 RED BUD CREEK NEAR MOORES MILL, MS

LOCATION.--34°28'00", long 88°16'59", in SW1/4 SE1/4 sec.18, T.7 S., R.10 E., Chickasaw Meridian, Tishomingo County, Hydrologic Unit 03160101, near left bank on upstream side of bridge on county road, 0.18 mi south of intersection of county road and blacktop road, 2.7 mi east-southeast of Moores Mill, and 5.6 mi southwest of Belmont.

DRAINAGE AREA.--15.7 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1975 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 360.36 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 10, 12-19, 21-24, 29, 30, Dec. 1-4, 22-31, Jan. 1, 2, 6-8, 15, 16, 20, 21, Feb. 6-12, Aug. 27-31, and Sept. 1-7, 9-12. Records fair except for estimated daily discharges, which are poor. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft<sup>3</sup>/s and maximum (\*).

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Mar. 10 | 2200 | 606                               | 10.67               | Apr. 3 | 1445 | *952                              | *11.13              |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|------|------|
| 1     | 2.9   | 21    | e6.2  | e6.6  | 11    | 11     | 9.2    | 13    | 4.1   | 4.6   | 5.0  | e2.1 |
| 2     | 2.8   | 18    | e6.0  | e6.5  | 10    | 10     | 317    | 12    | 3.9   | 4.1   | 4.7  | e2.0 |
| 3     | 2.8   | 4.7   | e6.3  | 21    | 11    | 10     | 462    | 12    | 3.9   | 3.8   | 5.9  | e2.0 |
| 4     | 2.9   | 4.2   | e6.8  | 41    | 10    | 11     | 168    | 11    | 5.2   | 3.8   | 3.5  | e2.1 |
| 5     | 3.1   | 4.0   | 10    | 12    | 9.3   | 11     | 72     | 12    | 6.7   | 3.6   | 3.0  | e2.3 |
| 6     | 3.0   | 3.7   | 8.0   | e10   | e8.8  | 11     | 44     | 10    | 5.4   | 3.7   | 2.8  | e2.2 |
| 7     | 2.9   | 3.8   | 6.8   | e8.8  | e8.7  | 11     | 29     | 9.4   | 4.5   | 4.5   | 2.7  | e2.1 |
| 8     | 3.3   | 4.3   | 6.7   | e8.5  | e8.5  | 11     | 34     | 9.0   | 4.1   | 3.8   | 2.8  | 3.8  |
| 9     | 4.6   | 4.5   | 7.7   | 41    | e8.5  | 11     | 20     | 8.5   | 3.9   | 3.6   | 2.7  | e3.0 |
| 10    | 4.1   | e4.3  | 23    | 15    | e8.3  | 121    | 18     | 8.1   | 3.8   | 3.4   | 2.6  | e2.3 |
| 11    | 3.7   | 5.3   | 6.7   | 12    | e8.2  | 172    | 17     | 7.7   | 3.7   | 3.3   | 2.8  | e2.2 |
| 12    | 3.5   | e5.0  | 19    | 12    | e8.8  | 54     | 18     | 7.1   | 3.6   | 3.5   | 2.8  | e2.3 |
| 13    | 3.6   | e4.8  | 46    | 12    | 20    | 29     | 108    | 6.9   | 3.6   | 3.7   | 2.7  | 3.2  |
| 14    | 3.8   | e4.7  | 8.2   | 11    | 21    | 19     | 57     | 6.4   | 3.6   | 3.3   | 2.7  | 2.9  |
| 15    | 3.4   | e4.5  | 6.9   | e9.4  | 12    | 14     | 33     | 5.9   | 3.9   | 3.8   | 2.5  | 2.8  |
| 16    | 3.5   | e4.4  | 6.4   | e9.0  | 12    | 87     | 21     | 5.7   | 3.9   | 4.8   | 2.4  | 2.6  |
| 17    | 3.7   | e4.5  | 6.4   | 16    | 23    | 51     | 18     | 5.6   | 4.3   | 3.4   | 2.3  | 2.5  |
| 18    | 3.8   | e4.8  | 6.6   | 14    | 21    | 25     | 16     | 5.3   | 5.3   | 3.4   | 2.2  | 2.5  |
| 19    | 3.6   | e5.0  | 7.0   | 13    | 35    | 141    | 15     | 5.2   | 4.8   | 3.5   | 2.2  | 2.3  |
| 20    | 3.7   | 9.6   | 7.5   | e9.4  | 14    | 104    | 15     | 5.2   | 4.5   | 3.3   | 2.1  | 2.3  |
| 21    | 3.6   | e8.1  | 9.1   | e9.1  | 13    | 46     | 14     | 5.6   | 4.6   | 3.5   | 2.1  | 2.5  |
| 22    | 3.6   | e6.5  | e8.0  | 37    | 12    | 26     | 13     | 5.4   | 4.5   | 3.3   | 2.1  | 2.3  |
| 23    | 3.7   | e6.0  | e7.2  | 33    | 12    | 17     | 13     | 5.0   | 4.0   | 3.6   | 2.0  | 2.4  |
| 24    | 3.7   | e6.6  | e7.0  | 15    | 12    | 13     | 27     | 5.0   | 3.6   | 3.5   | 1.9  | 2.4  |
| 25    | 3.8   | 10    | e6.8  | 13    | 11    | 13     | 16     | 4.8   | 3.5   | 3.2   | 1.9  | 2.5  |
| 26    | 3.9   | 9.8   | e6.7  | 12    | 13    | 14     | 14     | 4.5   | 3.4   | 3.0   | 2.3  | 2.2  |
| 27    | 3.7   | 7.9   | e6.9  | 10    | 42    | 12     | 35     | 4.6   | 4.5   | 2.9   | e2.3 | 2.3  |
| 28    | 3.7   | 7.5   | e6.5  | 11    | 13    | 10     | 48     | 5.6   | 5.4   | 2.8   | e2.2 | 2.3  |
| 29    | 3.6   | e6.8  | e6.4  | 15    | 12    | 9.6    | 18     | 4.7   | 17    | 2.8   | e2.2 | 2.1  |
| 30    | 3.8   | e6.4  | e6.4  | 13    | ---   | 9.4    | 15     | 4.4   | 6.2   | 2.8   | e2.1 | 2.1  |
| 31    | 3.9   | ---   | e6.5  | 11    | ---   | 8.4    | ---    | 4.2   | ---   | 3.0   | e2.1 | ---  |
| TOTAL | 109.7 | 200.7 | 285.7 | 467.3 | 409.1 | 1092.4 | 1704.2 | 219.8 | 143.4 | 109.3 | 83.6 | 72.6 |
| MEAN  | 3.54  | 6.69  | 9.22  | 15.1  | 14.1  | 35.2   | 56.8   | 7.09  | 4.78  | 3.53  | 2.70 | 2.42 |
| MAX   | 4.6   | 21    | 46    | 41    | 42    | 172    | 462    | 13    | 17    | 4.8   | 5.9  | 3.8  |
| MIN   | 2.8   | 3.7   | 6.0   | 6.5   | 8.2   | 8.4    | 9.2    | 4.2   | 3.4   | 2.8   | 1.9  | 2.0  |
| MED   | 3.6   | 5.0   | 6.8   | 12    | 12    | 13     | 19     | 5.7   | 4.1   | 3.5   | 2.4  | 2.3  |
| CFSM  | .23   | .43   | .59   | .96   | .90   | 2.24   | 3.62   | .45   | .30   | .22   | .17  | .15  |
| IN.   | .26   | .48   | .68   | 1.11  | .97   | 2.59   | 4.04   | .52   | .34   | .26   | .20  | .17  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)

|      | MEAN | 11.5 | 24.6 | 41.8 | 40.2 | 44.5 | 49.4 | 38.8 | 35.1 | 19.0 | 11.6 | 9.22 | 7.75 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 24.5 | 64.5 | 128  | 96.6 | 108  | 119  | 116  | 207  | 86.3 | 50.2 | 21.7 | 34.5 |      |
| (WY) | 1976 | 1987 | 1991 | 1999 | 1990 | 1980 | 1991 | 1991 | 1997 | 1989 | 1997 | 1979 |      |
| MIN  | 3.54 | 5.00 | 9.22 | 10.2 | 14.1 | 20.2 | 8.58 | 3.85 | 3.25 | 3.15 | 2.54 | 2.08 |      |
| (WY) | 2000 | 1982 | 2000 | 1986 | 2000 | 1982 | 1986 | 1992 | 1988 | 1977 | 1981 | 1987 |      |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1975 - 2000

|                          |        |        |       |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 9856.1 | 4897.8 |       |
| ANNUAL MEAN              | 27.0   | 13.4   | 27.7  |
| HIGHEST ANNUAL MEAN      |        |        | 58.0  |
| LOWEST ANNUAL MEAN       |        |        | 12.6  |
| HIGHEST DAILY MEAN       | 431    | Jan 23 | 1200  |
| LOWEST DAILY MEAN        | 2.1    | Sep 28 | 1.4   |
| ANNUAL SEVEN-DAY MINIMUM | 2.2    | Sep 24 | 1.6   |
| INSTANTANEOUS PEAK FLOW  |        |        | 2330  |
| INSTANTANEOUS PEAK STAGE |        |        | 13.13 |
| ANNUAL RUNOFF (CFSM)     | 1.72   |        | 1.76  |
| ANNUAL RUNOFF (INCHES)   | 23.35  |        | 23.95 |
| 10 PERCENT EXCEEDS       | 61     |        | 54    |
| 50 PERCENT EXCEEDS       | 7.7    |        | 14    |
| 90 PERCENT EXCEEDS       | 2.9    |        | 3.5   |

e Estimated



## 02430500 TOMBIGBEE RIVER NEAR MARIETTA, MS

LOCATION.--Lat 34°25'36", long 88°25'17", in NE1/4 SE1/4 sec.35, T.7 S., R.8 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, at bridge on unimproved road 0.5 mi downstream from confluence of Big Brown Creek Canal and Mackeys Creek, and 6 mi southeast of Marietta.

DRAINAGE AREA.--308 mi<sup>2</sup>, prior to construction of Tennessee-Tombigbee Waterway.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to September 1950. October 1968 to September 1977 (annual maximums only). October 1988 to current year (low-flow records only).

GAGE.--Water-stage recorder. Datum of gage is 282.16 ft above sea level. October 1968 to September 1977, nonrecording gage.

REMARKS.--Estimated daily discharges: Mar. 1-6 and Mar. 20-28. Records good except for estimated daily discharges, which are poor. Discharges above 500 ft<sup>3</sup>/s not determined. Satellite telemeter, telemeter, and U.S. Army Corps of Engineers radio telemeter at station.

AVERAGE DISCHARGE.--13 years (water years 1937-50), 502 ft<sup>3</sup>/s, 22.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,600 ft<sup>3</sup>/s, Mar. 17, 1973, gage height, 12.30 ft; maximum gage height, 15.24 ft, May 27, 1991 (discharge not determined); minimum discharge, 10 ft<sup>3</sup>/s, Aug. 18, 1943, gage height, 2.30 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined, maximum gage height, 12.62 ft, April 13, minimum daily discharge, 90 ft<sup>3</sup>/s, May 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|-----|------|------|------|------|------|
| 1     | 129  | 141  | 111  | 127  | 136  | e145 | 156 | 184  | 98   | 98   | 154  | 128  |
| 2     | 130  | 183  | 111  | 126  | 131  | e142 | --- | 166  | 118  | 93   | 151  | 128  |
| 3     | 130  | 162  | 119  | 126  | 130  | e139 | --- | 161  | 132  | 115  | 151  | 128  |
| 4     | 130  | 137  | 119  | 136  | 129  | e136 | --- | 158  | 132  | 126  | 148  | 128  |
| 5     | 130  | 129  | 119  | 128  | 128  | e133 | --- | 166  | 117  | 127  | 147  | 128  |
| 6     | 130  | 130  | 110  | 106  | 124  | e129 | --- | 154  | 107  | 130  | 146  | 131  |
| 7     | 130  | 142  | 103  | 94   | 121  | 122  | --- | 143  | 105  | 141  | 143  | 135  |
| 8     | 131  | 143  | 103  | 91   | 122  | 122  | 437 | 136  | 114  | 144  | 141  | 147  |
| 9     | 132  | 143  | 122  | 111  | 122  | 123  | 380 | 132  | 128  | 144  | 141  | 144  |
| 10    | 120  | 142  | 125  | 132  | 122  | 131  | 329 | 128  | 129  | 144  | 135  | 124  |
| 11    | 113  | 142  | 115  | 128  | 122  | 340  | 298 | 127  | 129  | 146  | 132  | 119  |
| 12    | 120  | 142  | 113  | 122  | 122  | 254  | 368 | 124  | 110  | 146  | 131  | 129  |
| 13    | 131  | 142  | 191  | 119  | 131  | 186  | --- | 116  | 107  | 148  | 132  | 142  |
| 14    | 134  | 141  | 156  | 119  | 229  | 159  | --- | 112  | 107  | 150  | 131  | 142  |
| 15    | 134  | 140  | 128  | 117  | 187  | 148  | 491 | 105  | 127  | 149  | 128  | 142  |
| 16    | 133  | 138  | 121  | 123  | 155  | 145  | 406 | 108  | 129  | 157  | 130  | 141  |
| 17    | 133  | 137  | 117  | 134  | 145  | 149  | 343 | 105  | 133  | 159  | 131  | 141  |
| 18    | 133  | 136  | 116  | 134  | 160  | 142  | 295 | 106  | 162  | 155  | 131  | 142  |
| 19    | 133  | 135  | 114  | 131  | 165  | 326  | 255 | 114  | 135  | 158  | 131  | 143  |
| 20    | 133  | 134  | 113  | 127  | 153  | e430 | 225 | 98   | 147  | 156  | 130  | 142  |
| 21    | 134  | 133  | 114  | 124  | 143  | e310 | 197 | 98   | 108  | 158  | 129  | 142  |
| 22    | 134  | 133  | 122  | 125  | 138  | e240 | 194 | 99   | 98   | 158  | 130  | 142  |
| 23    | 134  | 132  | 128  | 163  | 133  | e195 | 201 | 101  | 91   | 159  | 130  | 143  |
| 24    | 134  | 130  | 129  | 151  | 133  | e165 | 320 | 118  | 95   | 161  | 129  | 146  |
| 25    | 134  | 128  | 129  | 139  | 133  | e170 | 460 | 118  | 117  | 159  | 130  | 146  |
| 26    | 135  | 124  | 127  | 130  | 129  | e185 | 322 | 117  | 127  | 153  | 131  | 146  |
| 27    | 135  | 123  | 126  | 127  | 243  | e175 | 248 | 126  | 148  | 151  | 131  | 146  |
| 28    | 135  | 125  | 126  | 126  | 204  | e165 | 317 | 129  | 115  | 151  | 131  | 145  |
| 29    | 135  | 124  | 126  | 135  | 160  | 166  | 264 | 114  | 159  | 151  | 131  | 146  |
| 30    | 135  | 121  | 126  | 147  | ---  | 162  | 209 | 100  | 136  | 152  | 131  | 146  |
| 31    | 135  | ---  | 127  | 142  | ---  | 160  | --- | 90   | ---  | 156  | 129  | ---  |
| TOTAL | 4069 | 4112 | 3806 | 3940 | 4250 | 5694 | --- | 3853 | 3660 | 4495 | 4196 | 4152 |
| MEAN  | 131  | 137  | 123  | 127  | 147  | 184  | --- | 124  | 122  | 145  | 135  | 138  |
| MAX   | 135  | 183  | 191  | 163  | 243  | 430  | --- | 184  | 162  | 161  | 154  | 147  |
| MIN   | 113  | 121  | 103  | 91   | 121  | 122  | --- | 90   | 91   | 93   | 128  | 119  |
| CFSM  | .43  | .45  | .40  | .41  | .48  | .60  | --- | .40  | .40  | .47  | .44  | .45  |
| IN.   | .49  | .50  | .46  | .48  | .51  | .69  | --- | .47  | .44  | .54  | .51  | .50  |

e Estimated

## MOBILE RIVER BASIN

02430500 TOMBIGBEE RIVER NEAR MARIETTA, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-73, 1989-97, 1999 to May 2000 (discontinued).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>D (MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>D (T/DAY)<br>(80155) |
|--------------|------|-----------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------|
| DEC<br>08... | 1400 | 91                                                                    | 42                                                     | 10                                                                         |
| MAR<br>06... | 1520 | 129                                                                   | 40                                                     | 14                                                                         |
| MAY<br>25... | 1335 | 120                                                                   | 63                                                     | 20                                                                         |

## MOBILE RIVER BASIN

39

02430615 MUD CREEK NEAR FAIRVIEW, MS

LOCATION.--Lat 34°23'33", long 88°21'18", in NW1/4 NE1/4 sec.16, T.8 S., R.9 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03170101, at left bank on downstream side of bridge on county road 3.0 mi northwest of Fairview and 8.8 mi north-northeast of Fulton.

DRAINAGE AREA.--11.1 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1975 to current year.

REVISED RECORDS.--WDR MS-78-1: 1976(P), 1977(P).

GAGE.--Water-stage recorder. Elevation of gage is 313 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: May 8-24, Jul. 30 - Aug. 9, and Sept. 20-29. Records good except for estimated daily discharges, which are poor. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 3 | 1515 | *367                              | *8.76               | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR  | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1     | 2.8   | 19    | 6.7   | 8.6   | 12    | 12    | 19   | 16    | 3.3   | 7.4   | e3.5  | .90   |
| 2     | 2.6   | 19    | 6.6   | 8.4   | 11    | 11    | 204  | 16    | 2.9   | 5.8   | e3.2  | .88   |
| 3     | 2.3   | 9.0   | 7.3   | 17    | 11    | 11    | 193  | 15    | 4.8   | 4.8   | e4.5  | .85   |
| 4     | 2.4   | 11    | 7.6   | 32    | 10    | 11    | 74   | 15    | 8.7   | 4.4   | e3.0  | .97   |
| 5     | 2.6   | 7.6   | 12    | 15    | 11    | 9.5   | 35   | 14    | 11    | 4.0   | e2.2  | 1.4   |
| 6     | 2.5   | 5.8   | 10    | 13    | 10    | 8.7   | 29   | 14    | 7.4   | 3.8   | e1.9  | 1.0   |
| 7     | 2.3   | 5.9   | 7.7   | 12    | 10    | 8.3   | 26   | 13    | 5.2   | 4.1   | e1.7  | 2.8   |
| 8     | 2.6   | 5.8   | 7.1   | 12    | 9.4   | 8.1   | 30   | e13   | 4.3   | 3.7   | e1.6  | 7.7   |
| 9     | 6.5   | 5.6   | 7.8   | 28    | 9.2   | 9.7   | 24   | e12   | 3.8   | 3.4   | e1.4  | 6.9   |
| 10    | 5.3   | 5.6   | 28    | 17    | 9.2   | 77    | 23   | e12   | 3.6   | 3.3   | 1.3   | 4.6   |
| 11    | 3.9   | 6.6   | 12    | 14    | 9.0   | 76    | 24   | e11   | 3.3   | 3.7   | 1.5   | 3.3   |
| 12    | 3.5   | 6.0   | 19    | 12    | 9.2   | 26    | 29   | e10   | 3.0   | 4.1   | 1.1   | 4.0   |
| 13    | 3.3   | 6.0   | 35    | 12    | 14    | 20    | 56   | e9.5  | 2.9   | 5.4   | 1.1   | 4.5   |
| 14    | 3.1   | 5.9   | 15    | 11    | 19    | 18    | 30   | e8.8  | 2.9   | 4.1   | 1.1   | 3.8   |
| 15    | 2.7   | 5.6   | 11    | 9.7   | 12    | 17    | 25   | e8.2  | 2.9   | 3.9   | 1.0   | 3.2   |
| 16    | 2.8   | 5.0   | 9.8   | 9.6   | 11    | 49    | 23   | e7.8  | 3.1   | 6.4   | 1.0   | 2.8   |
| 17    | 3.2   | 5.2   | 9.1   | 21    | 36    | 28    | 21   | e7.2  | 4.2   | 4.3   | .92   | 2.6   |
| 18    | 3.0   | 5.9   | 9.1   | 15    | 27    | 22    | 20   | e7.0  | 7.3   | 3.9   | .82   | 2.6   |
| 19    | 3.2   | 6.1   | 8.9   | 14    | 25    | 81    | 19   | e6.5  | 8.1   | 3.7   | .84   | 2.5   |
| 20    | 3.4   | 11    | 9.1   | 11    | 17    | 40    | 19   | e6.2  | 7.4   | 3.5   | .82   | e2.4  |
| 21    | 3.4   | 9.6   | 13    | 11    | 15    | 26    | 18   | e5.8  | 8.3   | 5.2   | .87   | e2.3  |
| 22    | 3.4   | 7.8   | 11    | 23    | 13    | 23    | 18   | e5.2  | 7.1   | 3.8   | .85   | e2.2  |
| 23    | 2.9   | 7.4   | 9.2   | 25    | 12    | 21    | 18   | e5.0  | 5.3   | 6.1   | .85   | e2.0  |
| 24    | 3.3   | 10    | 9.4   | 16    | 12    | 19    | 31   | e4.6  | 4.5   | 5.6   | .85   | e1.9  |
| 25    | 3.5   | 13    | 8.9   | 13    | 12    | 18    | 22   | 4.6   | 4.0   | 3.8   | .88   | e2.0  |
| 26    | 3.4   | 14    | 8.8   | 11    | 14    | 18    | 19   | 3.9   | 3.5   | 3.2   | 2.9   | e1.8  |
| 27    | 3.5   | 8.7   | 9.3   | 11    | 31    | 16    | 22   | 4.6   | 12    | 3.0   | 2.0   | e1.7  |
| 28    | 3.5   | 7.6   | 8.6   | 13    | 16    | 15    | 29   | 10    | 15    | 2.6   | 1.5   | e1.5  |
| 29    | 3.4   | 7.0   | 8.4   | 21    | 14    | 15    | 20   | 5.6   | 17    | 2.5   | 1.3   | e1.4  |
| 30    | 3.9   | 7.1   | 8.4   | 16    | ---   | 15    | 18   | 4.1   | 10    | e2.4  | 1.0   | 1.3   |
| 31    | 3.5   | ---   | 8.5   | 12    | ---   | 15    | ---  | 3.5   | ---   | e2.3  | .95   | ---   |
| TOTAL | 101.7 | 249.8 | 342.3 | 464.3 | 421.0 | 744.3 | 1138 | 279.1 | 186.8 | 128.2 | 48.45 | 77.80 |
| MEAN  | 3.28  | 8.33  | 11.0  | 15.0  | 14.5  | 24.0  | 37.9 | 9.00  | 6.23  | 4.14  | 1.56  | 2.59  |
| MAX   | 6.5   | 19    | 35    | 32    | 36    | 81    | 204  | 16    | 17    | 7.4   | 4.5   | 7.7   |
| MIN   | 2.3   | 5.0   | 6.6   | 8.4   | 9.0   | 8.1   | 18   | 3.5   | 2.9   | 2.3   | .82   | .85   |
| MED   | 3.3   | 7.1   | 9.1   | 13    | 12    | 18    | 24   | 8.2   | 4.7   | 3.9   | 1.1   | 2.2   |
| CFSM  | .30   | .75   | .99   | 1.35  | 1.31  | 2.16  | 3.42 | .81   | .56   | .37   | .14   | .23   |
| IN.   | .34   | .84   | 1.15  | 1.56  | 1.41  | 2.49  | 3.81 | .94   | .63   | .43   | .16   | .26   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)

|      | MEAN | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| MEAN | 9.75 | 18.6 | 28.4 | 25.0 | 28.6 | 32.3 | 26.5 | 25.1 | 15.6 | 9.43 | 7.99 | 7.73 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| MAX  | 21.3 | 46.3 | 95.7 | 49.2 | 78.0 | 71.3 | 82.8 | 134  | 61.0 | 19.8 | 20.9 | 18.3 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 1976 | 1987 | 1991 | 1999 | 1991 | 1980 | 1991 | 1991 | 1997 | 1994 | 1975 | 1975 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| MIN  | 3.28 | 4.51 | 8.41 | 8.41 | 12.9 | 10.3 | 5.62 | 6.04 | 2.85 | 3.29 | 1.56 | 2.32 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 2000 | 1982 | 1982 | 1986 | 1986 | 1982 | 1986 | 1981 | 1988 | 1988 | 2000 | 1999 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1975 - 2000

|                          |        |         |       |
|--------------------------|--------|---------|-------|
| ANNUAL TOTAL             | 6387.5 | 4181.75 |       |
| ANNUAL MEAN              | 17.5   | 11.4    | 19.4  |
| HIGHEST ANNUAL MEAN      |        |         | 45.2  |
| LOWEST ANNUAL MEAN       |        |         | 9.80  |
| HIGHEST DAILY MEAN       | 335    | 204     | 984   |
| LOWEST DAILY MEAN        | 1.8    | .82     | .82   |
| ANNUAL SEVEN-DAY MINIMUM | 1.9    | .84     | .84   |
| INSTANTANEOUS PEAK FLOW  |        | 367     | 1510  |
| INSTANTANEOUS PEAK STAGE |        | 8.76    | 10.49 |
| ANNUAL RUNOFF (CFSM)     | 1.58   | 1.03    | 1.75  |
| ANNUAL RUNOFF (INCHES)   | 21.41  | 14.01   | 23.79 |
| 10 PERCENT EXCEEDS       | 34     | 22      | 34    |
| 50 PERCENT EXCEEDS       | 9.4    | 7.7     | 12    |
| 90 PERCENT EXCEEDS       | 2.5    | 2.0     | 4.1   |

e Estimated

## MOBILE RIVER BASIN

02430680 TWENTYMILE CREEK NEAR GUNTOWN, MS

LOCATION.--Lat 34°27'09", long 88°34'38", in SW1/4 SW1/4 sec.21, T.7 S., R.7 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160101, on downstream side of bridge on county road, and 6.0 mi southeast of Baldwin, and 6.0 mi east of Guntown.

DRAINAGE AREA.--131 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1982 to current year. September 1964 to January 1975, discharge measurements only, and February 1975 to June 1977, discharge measurements and gage-height record only, in files of U. S. Army Corps of Engineers. July 1977 to September 1982, gage-height records only, in files of U.S. Geological Survey.

GAGE.--Water-stage recorder and sharp-crested weir since November, 1982. Datum of gage is 280.00 ft above sea level.

REMARKS.--Estimated discharges: Apr. 7-11 and Jun. 17-28. Records good except for estimated discharges, which are poor. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharges of 10,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 2 | 2400 | *6,900                            | *18.59              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB  | MAR  | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|
| 1     | .19   | 16    | 4.9   | 9.1   | 30   | 48   | 46    | 35    | 3.7   | 25    | 5.1   | .19   |
| 2     | .19   | 26    | 4.5   | 9.1   | 25   | 38   | 4600  | 32    | 3.4   | 17    | 2.6   | .16   |
| 3     | .19   | 11    | 4.8   | 11    | 22   | 33   | 4300  | 30    | 3.2   | 11    | 1.7   | .14   |
| 4     | .19   | 6.2   | 5.2   | 87    | 20   | 31   | 1650  | 28    | 3.4   | 7.6   | 1.4   | .13   |
| 5     | .17   | 4.5   | 6.6   | 27    | 18   | 28   | 450   | 27    | 3.6   | 6.0   | 1.2   | .11   |
| 6     | .14   | 3.8   | 8.1   | 18    | 17   | 28   | 158   | 23    | 3.8   | 4.6   | 1.1   | .10   |
| 7     | .13   | 3.5   | 6.5   | 14    | 17   | 27   | e140  | 20    | 3.5   | 3.8   | .94   | .10   |
| 8     | .16   | 2.9   | 5.3   | 11    | 17   | 23   | e200  | 18    | 3.2   | 3.5   | .82   | .25   |
| 9     | 3.7   | 2.7   | 4.8   | 18    | 17   | 23   | e110  | 15    | 2.9   | 3.5   | .69   | .49   |
| 10    | 6.6   | 2.6   | 23    | 25    | 16   | 461  | e100  | 13    | 2.7   | 3.5   | .68   | .63   |
| 11    | 5.7   | 2.5   | 14    | 19    | 14   | 1040 | e95   | 12    | 2.4   | 3.5   | .65   | .70   |
| 12    | 4.1   | 2.5   | 185   | 16    | 19   | 152  | 127   | 9.8   | 2.3   | 3.3   | .63   | .82   |
| 13    | 3.3   | 2.5   | 432   | 15    | 99   | 75   | 740   | 8.1   | 2.1   | 3.1   | .65   | .87   |
| 14    | 2.9   | 2.6   | 37    | 13    | 384  | 52   | 404   | 6.0   | 1.9   | 3.0   | .58   | .82   |
| 15    | 2.7   | 2.8   | 21    | 10    | 66   | 43   | 157   | 5.0   | 1.8   | 2.6   | .58   | .82   |
| 16    | 2.3   | 3.1   | 15    | 11    | 42   | 52   | 107   | 4.7   | 1.7   | 2.7   | .54   | .77   |
| 17    | 2.2   | 3.1   | 12    | 30    | 53   | 66   | 80    | 4.5   | e10   | 2.9   | .52   | .86   |
| 18    | 2.2   | 3.1   | 11    | 36    | 186  | 43   | 63    | 4.6   | e26   | 2.7   | .47   | 1.2   |
| 19    | 2.3   | 3.2   | 10    | 25    | 70   | 2660 | 53    | 4.6   | e20   | 2.7   | .44   | 1.3   |
| 20    | 2.3   | 3.8   | 9.7   | 20    | 44   | 879  | 46    | 4.5   | e17   | 3.3   | .41   | 1.4   |
| 21    | 2.3   | 4.2   | 10    | 17    | 34   | 191  | 40    | 5.0   | e18   | 4.5   | .38   | 1.6   |
| 22    | 2.4   | 4.4   | 14    | 42    | 30   | 97   | 37    | 5.3   | e16   | 3.7   | .34   | 1.6   |
| 23    | 3.0   | 4.0   | 14    | 149   | 26   | 67   | 34    | 4.7   | e12   | 3.5   | .34   | 1.8   |
| 24    | 2.6   | 3.8   | 12    | 41    | 25   | 52   | 419   | 4.6   | e7.0  | 3.5   | .34   | 1.7   |
| 25    | 3.2   | 4.0   | 11    | 27    | 23   | 46   | 179   | 4.4   | e4.0  | 3.0   | .30   | 1.6   |
| 26    | 3.1   | 4.8   | 9.9   | 21    | 54   | 62   | 65    | 4.1   | e4.0  | 2.3   | .28   | 1.3   |
| 27    | 2.8   | 5.5   | 9.7   | 18    | 1070 | 45   | 48    | 4.2   | e23   | 2.1   | .28   | 1.3   |
| 28    | 2.8   | 5.5   | 9.5   | 19    | 123  | 34   | 94    | 28    | e40   | 2.1   | .30   | 1.3   |
| 29    | 2.9   | 5.4   | 9.1   | 52    | 64   | 28   | 51    | 14    | 356   | 1.8   | .28   | 1.3   |
| 30    | 2.8   | 5.4   | 9.1   | 68    | ---  | 27   | 39    | 6.1   | 50    | 1.7   | .24   | 1.3   |
| 31    | 3.0   | ---   | 9.1   | 39    | ---  | 26   | ---   | 4.4   | ---   | 2.6   | .21   | ---   |
| TOTAL | 72.56 | 155.4 | 937.8 | 917.2 | 2625 | 6477 | 14632 | 389.6 | 648.6 | 146.1 | 24.99 | 26.66 |
| MEAN  | 2.34  | 5.18  | 30.3  | 29.6  | 90.5 | 209  | 488   | 12.6  | 21.6  | 4.71  | .81   | .89   |
| MAX   | 6.6   | 26    | 432   | 149   | 1070 | 2660 | 4600  | 35    | 356   | 25    | 5.1   | 1.8   |
| MIN   | .13   | 2.5   | 4.5   | 9.1   | 14   | 23   | 34    | 4.1   | 1.7   | 1.7   | .21   | .10   |
| MED   | 2.6   | 3.8   | 9.9   | 19    | 30   | 46   | 104   | 6.1   | 3.8   | 3.3   | .54   | .84   |
| CFSM  | .02   | .04   | .23   | .23   | .69  | 1.59 | 3.72  | .10   | .17   | .04   | .01   | .01   |
| IN.   | .02   | .04   | .27   | .26   | .75  | 1.84 | 4.16  | .11   | .18   | .04   | .01   | .01   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000, BY WATER YEAR (WY)

|      | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 31.4 | 195  | 396  | 358  | 433  | 357  | 319  | 298  | 158  | 39.8 | 41.1 | 16.4 |      |      |      |      |      |      |      |
| MAX  | 97.7 | 785  | 1157 | 898  | 1195 | 652  | 912  | 1946 | 773  | 282  | 329  | 80.7 |      |      |      |      |      |      |      |
| (WY) | 1986 | 1984 | 1992 | 1989 | 1990 | 1994 | 1991 | 1991 | 1997 | 1989 | 1992 | 1996 |      |      |      |      |      |      |      |
| MIN  | 1.02 | 5.18 | 30.3 | 19.6 | 90.5 | 114  | 16.8 | 11.0 | 1.09 | 1.98 | .81  | .62  |      |      |      |      |      |      |      |
| (WY) | 1988 | 2000 | 2000 | 1986 | 2000 | 1988 | 1986 | 1988 | 1988 | 1990 | 2000 | 1999 |      |      |      |      |      |      |      |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1982 - 2000

|                          |             |             |                   |
|--------------------------|-------------|-------------|-------------------|
| ANNUAL TOTAL             | 66266.98    | 27052.91    | 220               |
| ANNUAL MEAN              | 182         | 73.9        | 435               |
| HIGHEST ANNUAL MEAN      |             |             | 66.6              |
| LOWEST ANNUAL MEAN       |             |             | 15500             |
| HIGHEST DAILY MEAN       | 9000 Jan 23 | 4600 Apr 2  | May 26 1991       |
| LOWEST DAILY MEAN        | .13 Oct 7   | .10 Sep 6   | .00 Aug 19 1988   |
| ANNUAL SEVEN-DAY MINIMUM | .17 Oct 2   | .13 Sep 1   | .05 Aug 14 1988   |
| INSTANTANEOUS PEAK FLOW  |             | 6900 Apr 2  | 41500 May 27 1991 |
| INSTANTANEOUS PEAK STAGE |             | 18.59 Apr 2 | 30.88 May 27 1991 |
| INSTANTANEOUS LOW FLOW   |             | .09 Sep 6,7 | .00 Aug 19 1988   |
| ANNUAL RUNOFF (CFSM)     | 1.39        | .56         | 1.68              |
| ANNUAL RUNOFF (INCHES)   | 18.82       | 7.68        | 22.84             |
| 10 PERCENT EXCEEDS       | 331         | 76          | 392               |
| 50 PERCENT EXCEEDS       | 18          | 6.1         | 40                |
| 90 PERCENT EXCEEDS       | 1.3         | .63         | 2.0               |

e Estimated



## MOBILE RIVER BASIN

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02430680 TWENTYMILE CREEK NEAR GUNTOWN, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989-97, 1999 to May 2000 (discontinued).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) |
|--------------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
| JAN<br>19... | 0830 | 26                                                                    | 61                                                           | 4.3                                                           |
| MAR<br>08... | 0915 | 22                                                                    | 61                                                           | 3.6                                                           |
| MAY<br>25... | 1550 | 4.6                                                                   | 77                                                           | .96                                                           |

## MOBILE RIVER BASIN

02430880 CUMMINGS CREEK NEAR FULTON, MS

LOCATION.--Lat 34°18'16", long 88°22'16", in SE1/4 NE1/4 sec.17, T.9 S., R.9 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03170101, in left bank, 20 ft downstream from bridge, on county road, 3.2 mi northeast of Fulton, and 4.2 mi upstream from mouth.

DRAINAGE AREA.--19.1 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1975 to current year.

REVISED RECORDS.--WDR MS-97-1: 1995(M).

GAGE.--Water-stage recorder. Elevation of gage is 295 ft. above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Apr. 2. Records good except for estimated daily discharges, which are poor. Satellite telemeter U.S. Army Corps of Engineers radio telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC   | JAN   | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|------|-------|-------|------|------|------|-------|-------|-------|-------|-------|
| 1     | 7.3   | 37   | 12    | 9.4   | 19   | 18   | 31   | 25    | 8.4   | 5.8   | 6.8   | 3.1   |
| 2     | 6.9   | 29   | 12    | 9.4   | 17   | 17   | e520 | 24    | 7.4   | 4.8   | 5.3   | 3.1   |
| 3     | 6.8   | 14   | 12    | 24    | 17   | 17   | 436  | 23    | 7.9   | 4.4   | 6.0   | 3.1   |
| 4     | 7.0   | 12   | 12    | 45    | 16   | 17   | 124  | 22    | 18    | 4.1   | 4.6   | 3.0   |
| 5     | 7.3   | 11   | 21    | 19    | 15   | 16   | 72   | 21    | 20    | 4.0   | 4.2   | 3.0   |
| 6     | 7.2   | 10   | 17    | 15    | 15   | 15   | 57   | 20    | 17    | 3.8   | 3.8   | 3.1   |
| 7     | 6.9   | 10   | 13    | 12    | 15   | 14   | 47   | 19    | 12    | 3.7   | 3.7   | 6.2   |
| 8     | 7.4   | 11   | 12    | 11    | 14   | 14   | 60   | 19    | 9.5   | 3.6   | 4.2   | 18    |
| 9     | 16    | 10   | 13    | 47    | 15   | 16   | 41   | 18    | 7.8   | 3.5   | 3.7   | 15    |
| 10    | 13    | 10   | 46    | 25    | 14   | 41   | 36   | 18    | 6.7   | 3.4   | 3.4   | 12    |
| 11    | 11    | 10   | 19    | 19    | 14   | 80   | 37   | 16    | 5.5   | 3.8   | 4.6   | 7.5   |
| 12    | 9.2   | 10   | 24    | 17    | 16   | 35   | 49   | 15    | 5.0   | 7.6   | 3.6   | 8.4   |
| 13    | 9.7   | 10   | 48    | 17    | 23   | 26   | 87   | 14    | 4.8   | 16    | 3.4   | 8.5   |
| 14    | 9.4   | 11   | 19    | 15    | 33   | 22   | 58   | 13    | 4.8   | 12    | 3.2   | 6.1   |
| 15    | 8.8   | 10   | 14    | 14    | 20   | 21   | 45   | 12    | 4.5   | 6.5   | 3.0   | 4.3   |
| 16    | 8.7   | 10   | 12    | 14    | 17   | 63   | 40   | 11    | 4.6   | 7.6   | 2.8   | 3.8   |
| 17    | 8.9   | 10   | 11    | 38    | 43   | 44   | 37   | 11    | 6.4   | 5.0   | 2.8   | 3.8   |
| 18    | 9.4   | 10   | 11    | 26    | 47   | 28   | 35   | 9.6   | 20    | 5.2   | 2.8   | 3.7   |
| 19    | 9.0   | 10   | 11    | 20    | 35   | 94   | 34   | 9.2   | 21    | 5.4   | 2.7   | 3.6   |
| 20    | 9.3   | 19   | 11    | 17    | 25   | 57   | 33   | 10    | 14    | 5.7   | 2.6   | 3.6   |
| 21    | 9.3   | 15   | 16    | 15    | 21   | 36   | 31   | 12    | 13    | 8.3   | 2.7   | 3.9   |
| 22    | 9.5   | 13   | 14    | 32    | 19   | 29   | 30   | 11    | 11    | 5.7   | 2.6   | 3.8   |
| 23    | 9.5   | 13   | 12    | 44    | 18   | 25   | 30   | 8.9   | 8.8   | 13    | 2.7   | 5.1   |
| 24    | 9.9   | 20   | 11    | 25    | 17   | 22   | 42   | 9.0   | 7.0   | 12    | 2.8   | 4.6   |
| 25    | 11    | 25   | 10    | 20    | 17   | 21   | 32   | 8.6   | 6.2   | 7.0   | 2.8   | 4.4   |
| 26    | 11    | 23   | 10    | 17    | 19   | 21   | 27   | 8.3   | 5.5   | 6.0   | 12    | 4.3   |
| 27    | 11    | 15   | 10    | 16    | 54   | 19   | 34   | 11    | 6.2   | 5.0   | 7.3   | 3.7   |
| 28    | 10    | 13   | 10    | 20    | 25   | 17   | 47   | 27    | 9.2   | 4.1   | 5.0   | 4.1   |
| 29    | 10    | 12   | 9.7   | 36    | 21   | 15   | 30   | 16    | 10    | 4.1   | 3.8   | 4.6   |
| 30    | 9.9   | 11   | 9.7   | 28    | ---  | 16   | 26   | 12    | 8.6   | 4.1   | 3.5   | 4.7   |
| 31    | 9.9   | ---  | 9.3   | 21    | ---  | 15   | ---  | 9.6   | ---   | 5.5   | 3.3   | ---   |
| TOTAL | 290.2 | 424  | 471.7 | 687.8 | 641  | 891  | 2208 | 463.2 | 290.8 | 190.7 | 125.7 | 166.1 |
| MEAN  | 9.36  | 14.1 | 15.2  | 22.2  | 22.1 | 28.7 | 73.6 | 14.9  | 9.69  | 6.15  | 4.05  | 5.54  |
| MAX   | 16    | 37   | 48    | 47    | 54   | 94   | 520  | 27    | 21    | 16    | 12    | 18    |
| MIN   | 6.8   | 10   | 9.3   | 9.4   | 14   | 14   | 26   | 8.3   | 4.5   | 3.4   | 2.6   | 3.0   |
| MED   | 9.4   | 11   | 12    | 19    | 18   | 21   | 38   | 13    | 8.1   | 5.2   | 3.5   | 4.2   |
| CFSM  | .49   | .74  | .80   | 1.16  | 1.16 | 1.50 | 3.85 | .78   | .51   | .32   | .21   | .29   |
| IN.   | .57   | .83  | .92   | 1.34  | 1.25 | 1.74 | 4.30 | .90   | .57   | .37   | .24   | .32   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)

|      | MEAN | 17.8 | 30.6 | 43.0 | 40.7 | 46.5 | 51.0 | 45.1 | 40.7 | 25.2 | 16.8 | 14.4 | 15.4 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 42.6 | 71.4 | 135  | 80.6 | 106  | 116  | 108  | 173  | 75.0 | 38.1 | 38.1 | 37.0 |      |
| (WY) | 1976 | 1987 | 1991 | 1979 | 1991 | 1980 | 1983 | 1991 | 1997 | 1989 | 1975 | 1975 |      |
| MIN  | 8.35 | 13.4 | 15.2 | 16.5 | 22.1 | 23.5 | 13.3 | 10.3 | 5.34 | 5.55 | 4.03 | 4.05 |      |
| (WY) | 1997 | 1982 | 2000 | 1986 | 2000 | 1982 | 1986 | 1988 | 1988 | 1988 | 1988 | 1986 |      |

## SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1975 - 2000

|                          |        |        |       |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 8950.5 | 6850.2 |       |
| ANNUAL MEAN              | 24.5   | 18.7   | 32.1  |
| HIGHEST ANNUAL MEAN      |        |        | 65.0  |
| LOWEST ANNUAL MEAN       |        |        | 17.2  |
| HIGHEST DAILY MEAN       | 263    | Jan 23 | 1200  |
| LOWEST DAILY MEAN        | 5.0    | Sep 7  | 2.1   |
| ANNUAL SEVEN-DAY MINIMUM | 5.3    | Sep 1  | 2.7   |
| INSTANTANEOUS PEAK FLOW  |        |        | 763   |
| INSTANTANEOUS PEAK STAGE |        |        | 10.22 |
| ANNUAL RUNOFF (CFSM)     | 1.28   |        | .98   |
| ANNUAL RUNOFF (INCHES)   | 17.43  |        | 13.34 |
| 10 PERCENT EXCEEDS       | 50     |        | 35    |
| 50 PERCENT EXCEEDS       | 16     |        | 12    |
| 90 PERCENT EXCEEDS       | 6.8    |        | 3.8   |

e Estimated

## 02431000 TOMBIGBEE RIVER NEAR FULTON, MS

LOCATION.--Lat 34°15'54", long 88°26'43", in SW1/4 SE1/4 sec.27, T.9 S., R.8 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, on left bank at downstream side of bridge on old U.S. Highway 78, 1,000 ft downstream from Twenty-mile-Fulton Canal, 2.2 mi west of Fulton, 6.2 mi upstream from Mantachie Creek Canal, 13.5 mi downstream from Twenty-mile Creek Canal, and at mile 421.8.

DRAINAGE AREA.--612 mi<sup>2</sup>, prior to construction of Tennessee-Tombigbee Waterway.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to current year. Prior to October 1966, published as East Fork Tombigbee River near Fulton. Daily mean gage heights published since October 1971. Gage-height records collected at site 800 ft upstream 1909-12 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1032: 1944. WRD Miss. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 242.93 ft above sea level. Prior to Oct. 27, 1934, nonrecording gage at bridge 200 ft upstream, and Oct. 27, 1934 to Aug. 22, 1939, nonrecording gage at present site, all at present datum.

REMARKS.--Estimated daily discharges: Nov. 14, Dec. 30 - Jan. 3, Jun. 3-8, and July 5. Records good except for estimated daily discharge, which are poor. Some regulation by Tennessee-Tombigbee Waterway since 1985. Statistics shown below are for water years 1985 to the current year, except for instantaneous extremes, which are shown for the entire period of record. Telemeter, satellite telemeter, and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 4 | 0900 | *11,300                           | *18.44              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1     | 133  | 147  | 136  | e156 | 244  | 427   | 250   | 309  | 106  | 201  | 158  | 129  |
| 2     | 133  | 185  | 120  | e152 | 212  | 348   | 2280  | 275  | 110  | 144  | 154  | 130  |
| 3     | 137  | 232  | 130  | e150 | 195  | 293   | 7990  | 246  | e135 | 133  | 157  | 133  |
| 4     | 138  | 175  | 147  | 239  | 188  | 264   | 10800 | 232  | e140 | 150  | 153  | 133  |
| 5     | 134  | 135  | 154  | 260  | 181  | 244   | 7730  | 228  | e145 | e140 | 151  | 131  |
| 6     | 132  | 126  | 152  | 193  | 174  | 221   | 4520  | 226  | e135 | 129  | 149  | 134  |
| 7     | 132  | 120  | 130  | 166  | 164  | 229   | 2530  | 206  | e125 | 128  | 148  | 141  |
| 8     | 135  | 137  | 121  | 157  | 162  | 210   | 1740  | 189  | e120 | 138  | 151  | 152  |
| 9     | 146  | 136  | 128  | 184  | 164  | 197   | 1180  | 174  | 122  | 141  | 149  | 159  |
| 10    | 148  | 135  | 198  | 211  | 169  | 238   | 813   | 164  | 134  | 142  | 151  | 150  |
| 11    | 127  | 133  | 174  | 205  | 162  | 1780  | 630   | 162  | 133  | 138  | 143  | 135  |
| 12    | 116  | 134  | 158  | 184  | 164  | 1710  | 612   | 158  | 132  | 140  | 142  | 127  |
| 13    | 128  | 133  | 667  | 167  | 170  | 1190  | 971   | 154  | 112  | 144  | 140  | 144  |
| 14    | 143  | e134 | 472  | 162  | 585  | 888   | 1730  | 146  | 112  | 146  | 139  | 152  |
| 15    | 143  | 136  | 277  | 156  | 545  | 592   | 1460  | 137  | 117  | 147  | 135  | 149  |
| 16    | 139  | 133  | 207  | 150  | 344  | 501   | 1210  | 130  | 131  | 149  | 136  | 148  |
| 17    | 135  | 133  | 183  | 188  | 339  | 565   | 899   | 128  | 140  | 156  | 141  | 148  |
| 18    | 135  | 135  | 170  | 229  | 587  | 457   | 656   | 124  | 507  | 152  | 140  | 148  |
| 19    | 131  | 133  | 162  | 211  | 575  | 1280  | 519   | 128  | 379  | 153  | 139  | 147  |
| 20    | 137  | 140  | 156  | 192  | 436  | 3270  | 443   | 131  | 517  | 153  | 140  | 151  |
| 21    | 136  | 141  | 152  | 174  | 334  | 2770  | 391   | 122  | 314  | 153  | 139  | 151  |
| 22    | 137  | 146  | 156  | 177  | 284  | 2050  | 347   | 121  | 169  | 158  | 135  | 152  |
| 23    | 136  | 143  | 183  | 349  | 252  | 1420  | 311   | 119  | 141  | 161  | 136  | 152  |
| 24    | 136  | 142  | 187  | 374  | 242  | 906   | 324   | 122  | 129  | 164  | 135  | 155  |
| 25    | 135  | 143  | 179  | 262  | 235  | 608   | 757   | 131  | 128  | 161  | 134  | 157  |
| 26    | 134  | 142  | 169  | 217  | 221  | 502   | 501   | 130  | 144  | 158  | 136  | 153  |
| 27    | 135  | 136  | 165  | 192  | 984  | 488   | 415   | 133  | 312  | 153  | 136  | 150  |
| 28    | 135  | 140  | 164  | 185  | 1070 | 406   | 475   | 149  | 285  | 147  | 136  | 152  |
| 29    | 135  | 149  | 164  | 215  | 568  | 338   | 484   | 156  | 295  | 152  | 136  | 151  |
| 30    | 135  | 149  | e162 | 304  | ---  | 296   | 372   | 132  | 457  | 153  | 133  | 152  |
| 31    | 136  | ---  | e158 | 301  | ---  | 268   | ---   | 116  | ---  | 153  | 132  | ---  |
| TOTAL | 4192 | 4303 | 5881 | 6462 | 9950 | 24956 | 53340 | 5078 | 5926 | 4637 | 4404 | 4366 |
| MEAN  | 135  | 143  | 190  | 208  | 343  | 805   | 1778  | 164  | 198  | 150  | 142  | 146  |
| MAX   | 148  | 232  | 667  | 374  | 1070 | 3270  | 10800 | 309  | 517  | 201  | 158  | 159  |
| MIN   | 116  | 120  | 120  | 150  | 162  | 197   | 250   | 116  | 106  | 128  | 132  | 127  |
| CFSM  | .22  | .23  | .31  | .34  | .56  | 1.32  | 2.91  | .27  | .32  | .24  | .23  | .24  |
| IN.   | .25  | .26  | .36  | .39  | .60  | 1.52  | 3.24  | .31  | .36  | .28  | .27  | .27  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2000, BY WATER YEAR (WY)

|      | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 212  | 543  | 1339 | 1367 | 1685 | 1589 | 1030 | 1049 | 753  | 290  | 249  | 163  |      |      |      |      |
| MAX  | 382  | 2056 | 4885 | 3280 | 4652 | 2771 | 3244 | 7724 | 3164 | 1232 | 931  | 408  |      |      |      |      |
| (WY) | 1990 | 1987 | 1992 | 1999 | 1990 | 1995 | 1991 | 1991 | 1997 | 1989 | 1992 | 1992 |      |      |      |      |
| MIN  | 105  | 143  | 190  | 152  | 343  | 540  | 165  | 148  | 92.6 | 113  | 82.8 | 82.0 |      |      |      |      |
| (WY) | 1988 | 2000 | 2000 | 1986 | 2000 | 1985 | 1986 | 1988 | 1988 | 1986 | 1987 | 1986 |      |      |      |      |

## SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1985 - 2000

|                          | 1999 CALENDAR YEAR | 2000 WATER YEAR | 1985 - 2000 |
|--------------------------|--------------------|-----------------|-------------|
| ANNUAL TOTAL             | 290790             | 133495          |             |
| ANNUAL MEAN              | 797                | 365             | 852         |
| HIGHEST ANNUAL MEAN      |                    |                 | 1837        |
| LOWEST ANNUAL MEAN       |                    |                 | 353         |
| HIGHEST DAILY MEAN       | 21200              | Jan 24          | 55100       |
| LOWEST DAILY MEAN        | 116                | Oct 12          | 33          |
| ANNUAL SEVEN-DAY MINIMUM | 129                | Aug 29          | 36          |
| INSTANTANEOUS PEAK FLOW  |                    |                 | 11300       |
| INSTANTANEOUS PEAK STAGE |                    |                 | 18.44       |
| ANNUAL RUNOFF (CFSM)     | 1.30               |                 | .60         |
| ANNUAL RUNOFF (INCHES)   | 17.68              |                 | 8.11        |
| 10 PERCENT EXCEEDS       | 1980               |                 | 1820        |
| 50 PERCENT EXCEEDS       | 214                |                 | 324         |
| 90 PERCENT EXCEEDS       | 132                |                 | 115         |

e Estimated

## MOBILE RIVER BASIN

02431000 TOMBIGBEE RIVER NEAR FULTON, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN  | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|------|-------|-------|-------|------|------|------|------|------|
| 1    | 7.31 | 7.46 | 7.35  | ---  | 8.18  | 9.42  | 8.53  | 8.98 | 7.17 | 7.96 | 7.57 | 7.28 |
| 2    | 7.32 | 7.83 | 7.17  | ---  | 7.91  | 8.93  | 14.60 | 8.72 | 7.22 | 7.44 | 7.53 | 7.29 |
| 3    | 7.36 | 8.23 | 7.29  | ---  | 7.77  | 8.55  | 17.87 | 8.50 | ---  | 7.32 | 7.57 | 7.31 |
| 4    | 7.37 | 7.74 | 7.47  | 8.14 | 7.71  | 8.33  | 18.34 | 8.40 | ---  | 7.49 | 7.53 | 7.32 |
| 5    | 7.32 | 7.34 | 7.53  | 8.31 | 7.64  | 8.18  | 17.73 | 8.37 | ---  | ---  | 7.50 | 7.30 |
| 6    | 7.31 | 7.24 | 7.52  | 7.75 | 7.58  | 8.00  | 16.93 | 8.34 | ---  | 7.27 | 7.48 | 7.33 |
| 7    | 7.31 | 7.17 | 7.28  | 7.51 | 7.48  | 8.06  | 15.96 | 8.18 | ---  | 7.27 | 7.47 | 7.40 |
| 8    | 7.34 | 7.36 | 7.19  | 7.41 | 7.46  | 7.90  | 14.69 | 8.03 | ---  | 7.37 | 7.51 | 7.51 |
| 9    | 7.46 | 7.35 | 7.26  | 7.67 | 7.48  | 7.79  | 13.03 | 7.89 | 7.36 | 7.40 | 7.48 | 7.59 |
| 10   | 7.47 | 7.34 | 7.95  | 7.91 | 7.53  | 8.05  | 11.63 | 7.79 | 7.48 | 7.41 | 7.50 | 7.49 |
| 11   | 7.25 | 7.32 | 7.73  | 7.86 | 7.46  | 14.64 | 10.81 | 7.77 | 7.48 | 7.37 | 7.42 | 7.33 |
| 12   | 7.13 | 7.33 | 7.56  | 7.67 | 7.48  | 14.63 | 10.72 | 7.74 | 7.46 | 7.39 | 7.41 | 7.25 |
| 13   | 7.27 | 7.32 | 10.49 | 7.51 | 7.54  | 12.95 | 12.15 | 7.69 | 7.24 | 7.44 | 7.39 | 7.43 |
| 14   | 7.42 | ---  | 9.64  | 7.46 | 10.10 | 11.64 | 14.73 | 7.62 | 7.24 | 7.45 | 7.38 | 7.51 |
| 15   | 7.43 | 7.35 | 8.43  | 7.40 | 10.04 | 10.31 | 13.98 | 7.51 | 7.30 | 7.46 | 7.34 | 7.48 |
| 16   | 7.38 | 7.32 | 7.87  | 7.34 | 8.90  | 9.84  | 13.15 | 7.44 | 7.46 | 7.49 | 7.35 | 7.47 |
| 17   | 7.34 | 7.32 | 7.66  | 7.70 | 8.84  | 10.18 | 11.99 | 7.42 | 7.56 | 7.56 | 7.40 | 7.47 |
| 18   | 7.33 | 7.34 | 7.54  | 8.06 | 10.28 | 9.59  | 10.93 | 7.38 | 9.83 | 7.51 | 7.39 | 7.47 |
| 19   | 7.30 | 7.32 | 7.46  | 7.91 | 10.23 | 12.64 | 10.24 | 7.42 | 9.24 | 7.53 | 7.38 | 7.46 |
| 20   | 7.35 | 7.39 | 7.40  | 7.75 | 9.47  | 16.62 | 9.82  | 7.45 | 9.94 | 7.52 | 7.39 | 7.51 |
| 21   | 7.35 | 7.40 | 7.37  | 7.58 | 8.83  | 16.33 | 9.51  | 7.36 | 8.79 | 7.53 | 7.38 | 7.50 |
| 22   | 7.36 | 7.45 | 7.41  | 7.60 | 8.48  | 15.44 | 9.23  | 7.34 | 7.68 | 7.58 | 7.34 | 7.51 |
| 23   | 7.35 | 7.42 | 7.66  | 8.88 | 8.25  | 13.81 | 8.99  | 7.32 | 7.40 | 7.60 | 7.35 | 7.51 |
| 24   | 7.35 | 7.41 | 7.70  | 9.08 | 8.16  | 11.81 | 9.07  | 7.35 | 7.27 | 7.64 | 7.33 | 7.54 |
| 25   | 7.34 | 7.42 | 7.63  | 8.31 | 8.10  | 10.51 | 11.39 | 7.46 | 7.26 | 7.60 | 7.33 | 7.56 |
| 26   | 7.33 | 7.42 | 7.53  | 7.96 | 8.00  | 9.99  | 10.15 | 7.44 | 7.43 | 7.57 | 7.35 | 7.52 |
| 27   | 7.34 | 7.35 | 7.49  | 7.74 | 11.85 | 9.94  | 9.66  | 7.47 | 8.74 | 7.52 | 7.35 | 7.50 |
| 28   | 7.34 | 7.39 | 7.48  | 7.68 | 12.41 | 9.49  | 10.00 | 7.64 | 8.64 | 7.47 | 7.35 | 7.51 |
| 29   | 7.34 | 7.49 | 7.48  | 7.94 | 10.18 | 9.09  | 10.05 | 7.71 | 8.60 | 7.51 | 7.35 | 7.50 |
| 30   | 7.34 | 7.48 | ---   | 8.63 | ---   | 8.82  | 9.39  | 7.46 | 9.69 | 7.52 | 7.32 | 7.51 |
| 31   | 7.35 | ---  | ---   | 8.61 | ---   | 8.64  | ---   | 7.28 | ---  | 7.53 | 7.30 | ---  |
| MEAN | 7.34 | ---  | ---   | ---  | 8.67  | 10.65 | 12.18 | 7.76 | ---  | ---  | 7.41 | 7.45 |
| MAX  | 7.47 | ---  | ---   | ---  | 12.41 | 16.62 | 18.34 | 8.98 | ---  | ---  | 7.57 | 7.59 |
| MIN  | 7.13 | ---  | ---   | ---  | 7.46  | 7.79  | 8.53  | 7.28 | ---  | ---  | 7.30 | 7.25 |



02431000 TOMBIGBEE RIVER NEAR FULTON, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1962-65, 1972-85, 1989 to August 2000 (discontinued).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY)<br>(80155) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) |
|-------|------|-----------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| NOV   |      |                                                                       |                                                                         |                                                                          |                                                                          |
| 09... | 1300 | 135                                                                   | 36                                                                      | 13                                                                       | --                                                                       |
| DEC   |      |                                                                       |                                                                         |                                                                          |                                                                          |
| 08... | 1300 | 120                                                                   | 25                                                                      | 8.1                                                                      | --                                                                       |
| JAN   |      |                                                                       |                                                                         |                                                                          |                                                                          |
| 20... | 1045 | 196                                                                   | 47                                                                      | 25                                                                       | --                                                                       |
| MAR   |      |                                                                       |                                                                         |                                                                          |                                                                          |
| 08... | 1125 | 206                                                                   | 75                                                                      | 42                                                                       | --                                                                       |
| APR   |      |                                                                       |                                                                         |                                                                          |                                                                          |
| 02... | 1530 | 2540                                                                  | 936                                                                     | 6420                                                                     | --                                                                       |
| 03... | 1225 | 8660                                                                  | 508                                                                     | 11900                                                                    | --                                                                       |
| 04... | 1330 | 11000                                                                 | 326                                                                     | 9680                                                                     | 23                                                                       |
| 05... | 1335 | 7520                                                                  | 191                                                                     | 3880                                                                     | --                                                                       |
| 06... | 1040 | 4760                                                                  | 124                                                                     | 1590                                                                     | --                                                                       |
| MAY   |      |                                                                       |                                                                         |                                                                          |                                                                          |
| 25... | 1055 | 135                                                                   | 54                                                                      | 20                                                                       | --                                                                       |
| JUN   |      |                                                                       |                                                                         |                                                                          |                                                                          |
| 28... | 1300 | 278                                                                   | 131                                                                     | 98                                                                       | --                                                                       |
| AUG   |      |                                                                       |                                                                         |                                                                          |                                                                          |
| 10... | 1130 | 149                                                                   | 47                                                                      | 19                                                                       | --                                                                       |

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | TIME | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.002 MM<br>(70337) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.004 MM<br>(70338) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.008 MM<br>(70339) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.016 MM<br>(70340) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.031 MM<br>(70341) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70342) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.125 MM<br>(70343) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.250 MM<br>(70344) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.500 MM<br>(70345) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>1.00 MM<br>(70346) |
|-------|------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| APR   |      |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |
| 04... | 1330 | 17                                                                      | 19                                                                      | 20                                                                      | 21                                                                      | 22                                                                      | 23                                                                      | 31                                                                      | 80                                                                      | 88                                                                      | 100                                                                     |

## 02432500 BULL MOUNTAIN CREEK AT TREMONT, MS

LOCATION.--Lat 34°14'20", long 88°16'15", in NE1/4 SW1/4 sec.5, T.10 S., R.10 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, on left bank at downstream side of bridge on U.S. Highway 78, 0.7 mi northwest of Tremont, 1.5 mi upstream from Johns Creek, 1.5 mi upstream from Cypress Creek, 8.0 mi southeast of Fulton, and 27.2 mi upstream from the mouth.

DRAINAGE AREA.--136 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1943 to September 1964, October 1973 to current year (low-water records only).

GAGE.--Water-stage recorder. Datum of gage is 317.39 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to July 22, 1949, staff gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Discharges over 200 ft<sup>3</sup>/s not determined. Satellite telemeter at station.

AVERAGE DISCHARGE.--21 years (water years 1944-64), 212 ft<sup>3</sup>/s, 21.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.06 ft, Apr. 6, 1983 (discharge not determined), minimum discharge, 3.6 ft<sup>3</sup>/s, Aug. 19, 1988, gage height, 1.84 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of March 1973 reached a stage of 13.1 ft from floodmark by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge not determined, maximum gage height 8.68 ft, Apr. 3, minimum discharge, 6.6 ft<sup>3</sup>/s, Sept. 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN | FEB | MAR | APR | MAY  | JUN  | JUL  | AUG   | SEP   |
|-------|------|------|------|-----|-----|-----|-----|------|------|------|-------|-------|
| 1     | 15   | 44   | 39   | 39  | 127 | 82  | 185 | 118  | 28   | 30   | 15    | 9.4   |
| 2     | 17   | 64   | 38   | 38  | 113 | 77  | --- | 108  | 26   | 25   | 18    | 9.2   |
| 3     | 17   | 67   | 38   | 42  | 101 | 76  | --- | 100  | 25   | 23   | 21    | 8.5   |
| 4     | 18   | 37   | 37   | --- | 94  | 72  | --- | 93   | 59   | 20   | 20    | 7.7   |
| 5     | 19   | 32   | 37   | --- | 87  | 71  | --- | 91   | 73   | 19   | 19    | 7.3   |
| 6     | 20   | 31   | 41   | --- | 78  | 70  | --- | 87   | 56   | 18   | 15    | 6.9   |
| 7     | 20   | 31   | 50   | 144 | 73  | 65  | --- | 78   | 46   | 17   | 14    | 6.8   |
| 8     | 20   | 31   | 48   | 115 | 71  | 63  | --- | 73   | 35   | 16   | 14    | 7.4   |
| 9     | 23   | 32   | 42   | 168 | 70  | 64  | --- | 68   | 31   | 16   | 13    | 9.4   |
| 10    | 36   | 31   | 45   | --- | 66  | 66  | --- | 65   | 29   | 15   | 11    | 12    |
| 11    | 40   | 30   | 69   | 186 | 64  | --- | --- | 62   | 25   | 14   | 11    | 12    |
| 12    | 38   | 29   | 66   | 139 | 63  | --- | --- | 56   | 23   | 14   | 11    | 12    |
| 13    | 33   | 29   | 69   | 117 | 60  | --- | --- | 52   | 22   | 16   | 10    | 12    |
| 14    | 32   | 29   | 105  | 102 | 85  | 193 | --- | 49   | 22   | 18   | 9.9   | 13    |
| 15    | 32   | 29   | 95   | 89  | 110 | 174 | --- | 44   | 26   | 16   | 9.3   | 13    |
| 16    | 32   | 28   | 73   | 84  | 88  | 170 | --- | 43   | 24   | 18   | 8.9   | 13    |
| 17    | 33   | 28   | 61   | 93  | 80  | --- | --- | 42   | 24   | 22   | 8.8   | 13    |
| 18    | 32   | 29   | 53   | 156 | --- | --- | --- | 40   | 33   | 19   | 8.8   | 12    |
| 19    | 32   | 29   | 48   | 127 | 176 | --- | --- | 38   | 102  | 15   | 8.8   | 11    |
| 20    | 32   | 31   | 46   | 108 | 135 | --- | 192 | 36   | 78   | 14   | 8.6   | 11    |
| 21    | 33   | 43   | 45   | 96  | 114 | --- | 171 | 37   | 51   | 15   | 8.2   | 11    |
| 22    | 34   | 47   | 46   | 88  | 106 | --- | 157 | 47   | 45   | 14   | 8.1   | 10    |
| 23    | 35   | 43   | 48   | 165 | 98  | --- | 143 | 42   | 37   | 14   | 7.9   | 10    |
| 24    | 35   | 40   | 48   | 175 | 90  | --- | 142 | 38   | 33   | 15   | 7.8   | 10    |
| 25    | 36   | 40   | 48   | 137 | 86  | --- | 150 | 36   | 29   | 17   | 7.8   | 10    |
| 26    | 36   | 44   | 45   | 117 | 84  | --- | 126 | 34   | 26   | 16   | 7.8   | 9.8   |
| 27    | 37   | 50   | 44   | 102 | 108 | --- | 114 | 33   | 24   | 13   | 8.4   | 9.5   |
| 28    | 37   | 46   | 43   | 93  | 118 | --- | --- | 37   | 22   | 12   | 9.5   | 9.5   |
| 29    | 39   | 41   | 42   | 118 | 91  | --- | 190 | 57   | 25   | 11   | 9.8   | 9.3   |
| 30    | 40   | 42   | 40   | 174 | --- | 198 | 139 | 38   | 30   | 11   | 9.9   | 9.2   |
| 31    | 41   | ---  | 39   | 154 | --- | 193 | --- | 31   | ---  | 11   | 9.9   | ---   |
| TOTAL | 944  | 1127 | 1588 | --- | --- | --- | --- | 1773 | 1109 | 514  | 350.2 | 304.9 |
| MEAN  | 30.5 | 37.6 | 51.2 | --- | --- | --- | --- | 57.2 | 37.0 | 16.6 | 11.3  | 10.2  |
| MAX   | 41   | 67   | 105  | --- | --- | --- | --- | 118  | 102  | 30   | 21    | 13    |
| MIN   | 15   | 28   | 37   | --- | --- | --- | --- | 31   | 22   | 11   | 7.8   | 6.8   |
| MED   | 33   | 32   | 46   | --- | --- | --- | --- | 47   | 29   | 16   | 9.9   | 10    |
| CFSM  | .22  | .28  | .38  | --- | --- | --- | --- | .42  | .27  | .12  | .08   | .07   |
| IN.   | .26  | .31  | .43  | --- | --- | --- | --- | .48  | .30  | .14  | .10   | .08   |

## 02433500 TOMBIGBEE RIVER AT BIGBEE, MS

LOCATION.--Lat 34°00'41", long 88°30'49", in SW1/4 NE1/4 sec.25, T.12 S., R.7 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160101, near right bank on downstream side of bridge on State Highway 6, 0.2 mi upstream from St. Louis-San Francisco Railway bridge, 0.5 mi southeast of Bigbee, 2 mi northwest of Amory, 3.7 mi upstream from Town Creek, and at mile 383.1.

DRAINAGE AREA.--1,226 mi<sup>2</sup>, prior to construction of Tennessee-Tombigbee Waterway.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1944 to September 1954, October 1963 to current year. Daily mean gage heights published since October 1985. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1966, published as East Fork Tombigbee River at Bigbee.

REVISED RECORDS.--WSP 1304: 1946, 1948. WRD Miss. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 190.00 ft above sea level (levels by U. S. Army Corps of Engineers) Prior to Sept. 9, 1949, nonrecording gage at same site and datum. Water-stage recorder for Tombigbee River near Amory (Station 02437000), 4.0 mi downstream, used as an auxiliary gage for this station.

REMARKS.--Estimated daily discharges: Apr. 1-5 and June 19. Records good except for periods of estimated daily discharges, which are poor. Some regulation by Tennessee-Tombigbee Waterway since 1985. Statistics shown below are for water years 1985 to the current year, except for instantaneous extremes, which are shown for the entire period of record. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of 1973 reached a stage of 27.64 ft and a discharge of 112,000 ft<sup>3</sup>/s and was the highest since at least 1890. The flood of Mar. 23, 1955, reached a stage of 26.2 ft, from floodmark, discharge, 73,000 ft<sup>3</sup>/s. Flood of December 1926 reached a stage of 24.2 ft from information by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 4 | ---- | *32,500                           | *19.48              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|--------|-------|------|------|------|------|
| 1     | 263  | 451  | 251   | 317   | 883   | 805   | e651   | 1370  | 227  | 520  | 335  | 274  |
| 2     | 267  | 770  | 305   | 319   | 541   | 858   | e8370  | 594   | 213  | 312  | 357  | 269  |
| 3     | 285  | 367  | 286   | 564   | 451   | 597   | e27200 | 551   | 220  | 235  | 369  | 266  |
| 4     | 285  | 402  | 257   | 1790  | 568   | 531   | e27600 | 505   | 270  | 219  | 330  | 271  |
| 5     | 286  | 360  | 277   | 1120  | 416   | 497   | e21700 | 484   | 254  | 219  | 318  | 273  |
| 6     | 278  | 314  | 611   | 1280  | 390   | 767   | 15200  | 474   | 249  | 220  | 316  | 266  |
| 7     | 277  | 294  | 406   | 766   | 388   | 455   | 9320   | 462   | 235  | 217  | 309  | 276  |
| 8     | 280  | 278  | 256   | 435   | 374   | 444   | 7190   | 798   | 282  | 213  | 310  | 310  |
| 9     | 506  | 290  | 243   | 967   | 373   | 442   | 4390   | 458   | 202  | 218  | 309  | 323  |
| 10    | 321  | 287  | 937   | 712   | 367   | 637   | 3410   | 622   | 204  | 222  | 301  | 326  |
| 11    | 313  | 270  | 447   | 1340  | 366   | 3820  | 2470   | 366   | 212  | 242  | 303  | 318  |
| 12    | 281  | 384  | 571   | 694   | 360   | 2370  | 1870   | 340   | 212  | 237  | 296  | 308  |
| 13    | 259  | 302  | 1180  | 360   | 369   | 2510  | 3700   | 602   | 211  | 259  | 282  | 294  |
| 14    | 254  | 279  | 957   | 520   | 844   | 2090  | 4670   | 319   | 194  | 310  | 282  | 294  |
| 15    | 270  | 285  | 649   | 310   | 1120  | 1420  | 4070   | 303   | 177  | 322  | 281  | 306  |
| 16    | 275  | 279  | 462   | 294   | 740   | 2000  | 4390   | 404   | 179  | 347  | 275  | 301  |
| 17    | 273  | 280  | 382   | 514   | 1040  | 1610  | 3290   | 272   | 199  | 322  | 281  | 298  |
| 18    | 268  | 276  | 345   | 315   | 1500  | 1680  | 2480   | 261   | 213  | 321  | 274  | 294  |
| 19    | 273  | 275  | 327   | 695   | 1790  | 3580  | 1610   | 250   | e551 | 321  | 271  | 292  |
| 20    | 262  | 266  | 317   | 419   | 1470  | 5180  | 1110   | 446   | 492  | 326  | 274  | 285  |
| 21    | 261  | 275  | 709   | 384   | 741   | 3670  | 1450   | 301   | 740  | 326  | 274  | 300  |
| 22    | 262  | 267  | 332   | 496   | 889   | 4000  | 734    | 243   | 611  | 325  | 272  | 298  |
| 23    | 264  | 265  | 323   | 1070  | 523   | 3010  | 864    | 239   | 315  | 330  | 272  | 294  |
| 24    | 265  | 261  | 341   | 707   | 484   | 2450  | 1340   | 236   | 264  | 342  | 280  | 300  |
| 25    | 269  | 265  | 350   | 1100  | 576   | 1920  | 918    | 239   | 239  | 329  | 279  | 304  |
| 26    | 275  | 284  | 342   | 506   | 527   | 1480  | 1580   | 361   | 333  | 328  | 291  | 303  |
| 27    | 283  | 266  | 332   | 436   | 1790  | 1280  | 812    | 305   | 365  | 322  | 290  | 295  |
| 28    | 279  | 250  | 323   | 435   | 1680  | 793   | 1210   | 550   | 410  | 314  | 283  | 283  |
| 29    | 274  | 243  | 317   | 737   | 1270  | 709   | 1070   | 279   | 789  | 300  | 277  | 284  |
| 30    | 285  | 247  | 317   | 563   | ---   | 612   | 1010   | 273   | 429  | 306  | 274  | 293  |
| 31    | 285  | ---  | 316   | 997   | ---   | 717   | ---    | 322   | ---  | 318  | 273  | ---  |
| TOTAL | 8778 | 9332 | 13468 | 21162 | 22830 | 52934 | 165679 | 13229 | 9491 | 9142 | 9138 | 8798 |
| MEAN  | 283  | 311  | 434   | 683   | 787   | 1708  | 5523   | 427   | 316  | 295  | 295  | 293  |
| MAX   | 506  | 770  | 1180  | 1790  | 1790  | 5180  | 27600  | 1370  | 789  | 520  | 369  | 326  |
| MIN   | 254  | 243  | 243   | 294   | 360   | 442   | 651    | 236   | 177  | 213  | 271  | 266  |
| MED   | 275  | 279  | 332   | 563   | 568   | 1420  | 2480   | 361   | 244  | 314  | 282  | 294  |
| CFSM  | .23  | .25  | .35   | .56   | .64   | 1.39  | 4.50   | .35   | .26  | .24  | .24  | .24  |
| IN.   | .27  | .28  | .41   | .64   | .69   | 1.61  | 5.03   | .40   | .29  | .28  | .28  | .27  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2000, BY WATER YEAR (WY)

|      | MEAN | 504  | 1040 | 2791 | 2833 | 3473 | 3478 | 2457  | 2420 | 1615 | 654  | 467  | 476 |
|------|------|------|------|------|------|------|------|-------|------|------|------|------|-----|
| MAX  | 919  | 3666 | 9297 | 7248 | 9187 | 6211 | 7958 | 17810 | 8068 | 1900 | 897  | 1770 |     |
| (WY) | 1985 | 1987 | 1991 | 1999 | 1991 | 1995 | 1991 | 1991  | 1997 | 1989 | 1993 | 1993 |     |
| MIN  | 247  | 311  | 434  | 343  | 787  | 925  | 382  | 331   | 242  | 283  | 219  | 209  |     |
| (WY) | 1988 | 2000 | 2000 | 1986 | 2000 | 1988 | 1986 | 1988  | 1988 | 1988 | 1987 | 1986 |     |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1985 - 2000

|                          |        |        |        |
|--------------------------|--------|--------|--------|
| ANNUAL TOTAL             | 673110 | 343981 | 1843   |
| ANNUAL MEAN              | 1844   | 940    | 4530   |
| HIGHEST ANNUAL MEAN      |        |        | 613    |
| LOWEST ANNUAL MEAN       |        |        | 1991   |
| HIGHEST DAILY MEAN       | 33000  | Jan 25 | 27600  |
| LOWEST DAILY MEAN        | 230    | Aug 19 | 177    |
| ANNUAL SEVEN-DAY MINIMUM | 243    | Aug 14 | 198    |
| INSTANTANEOUS PEAK FLOW  |        |        | 32500  |
| INSTANTANEOUS PEAK STAGE |        |        | 19.48a |
| INSTANTANEOUS LOW FLOW   |        |        | 173    |
| ANNUAL RUNOFF (CFSM)     | 1.50   |        | .77    |
| ANNUAL RUNOFF (INCHES)   | 20.42  |        | 10.44  |
| 10 PERCENT EXCEEDS       | 5200   |        | 1590   |
| 50 PERCENT EXCEEDS       | 447    |        | 323    |
| 90 PERCENT EXCEEDS       | 264    |        | 253    |

e Estimated

a From Floodmark.

## MOBILE RIVER BASIN

02433500 TOMBIGBEE RIVER AT BIGBEE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1    | 3.56 | 4.02 | 3.52 | 3.73 | 4.85 | 4.75  | ---   | 5.61 | 3.48 | 4.15 | 3.71 | 3.53 |
| 2    | 3.58 | 4.67 | 3.70 | 3.74 | 4.27 | 4.82  | ---   | 4.45 | 3.43 | 3.65 | 3.77 | 3.51 |
| 3    | 3.63 | 3.87 | 3.64 | 4.14 | 4.08 | 4.39  | ---   | 4.37 | 3.45 | 3.40 | 3.80 | 3.50 |
| 4    | 3.63 | 3.96 | 3.54 | 6.16 | 4.31 | 4.26  | ---   | 4.27 | 3.62 | 3.34 | 3.70 | 3.52 |
| 5    | 3.64 | 3.85 | 3.61 | 5.20 | 4.00 | 4.18  | ---   | 4.23 | 3.57 | 3.34 | 3.67 | 3.53 |
| 6    | 3.61 | 3.72 | 4.32 | 5.41 | 3.93 | 4.67  | 16.42 | 4.20 | 3.56 | 3.34 | 3.66 | 3.50 |
| 7    | 3.61 | 3.66 | 3.92 | 4.60 | 3.93 | 4.09  | 13.84 | 4.17 | 3.50 | 3.33 | 3.64 | 3.54 |
| 8    | 3.62 | 3.61 | 3.54 | 4.03 | 3.89 | 4.06  | 12.47 | 4.71 | 3.63 | 3.31 | 3.64 | 3.64 |
| 9    | 4.15 | 3.65 | 3.50 | 4.89 | 3.89 | 4.06  | 9.92  | 4.14 | 3.38 | 3.33 | 3.64 | 3.68 |
| 10   | 3.74 | 3.64 | 4.86 | 4.55 | 3.87 | 4.36  | 8.72  | 4.46 | 3.39 | 3.35 | 3.61 | 3.69 |
| 11   | 3.72 | 3.59 | 4.04 | 5.48 | 3.87 | 8.85  | 7.45  | 3.93 | 3.42 | 3.36 | 3.62 | 3.66 |
| 12   | 3.62 | 3.88 | 4.29 | 4.52 | 3.85 | 7.03  | 6.45  | 3.86 | 3.42 | 3.40 | 3.60 | 3.64 |
| 13   | 3.55 | 3.68 | 5.29 | 3.85 | 3.88 | 7.23  | 8.48  | 4.35 | 3.42 | 3.47 | 3.55 | 3.59 |
| 14   | 3.53 | 3.62 | 4.97 | 4.19 | 4.76 | 6.61  | 9.76  | 3.79 | 3.35 | 3.64 | 3.56 | 3.59 |
| 15   | 3.59 | 3.64 | 4.48 | 3.71 | 5.20 | 5.62  | 9.20  | 3.74 | 3.28 | 3.68 | 3.55 | 3.63 |
| 16   | 3.60 | 3.62 | 4.11 | 3.66 | 4.64 | 6.49  | 9.54  | 3.98 | 3.29 | 3.75 | 3.53 | 3.62 |
| 17   | 3.60 | 3.62 | 3.91 | 4.18 | 5.08 | 5.90  | 8.29  | 3.64 | 3.37 | 3.68 | 3.55 | 3.61 |
| 18   | 3.58 | 3.61 | 3.81 | 3.72 | 5.74 | 6.00  | 7.28  | 3.61 | 3.43 | 3.68 | 3.53 | 3.59 |
| 19   | 3.60 | 3.60 | 3.76 | 4.55 | 6.17 | 8.48  | 6.00  | 3.57 | ---  | 3.67 | 3.52 | 3.59 |
| 20   | 3.56 | 3.57 | 3.73 | 4.00 | 5.70 | 10.32 | 5.27  | 4.08 | 4.11 | 3.69 | 3.53 | 3.56 |
| 21   | 3.56 | 3.61 | 4.50 | 3.92 | 4.64 | 8.74  | 5.77  | 3.70 | 4.48 | 3.69 | 3.53 | 3.61 |
| 22   | 3.56 | 3.58 | 3.78 | 4.14 | 4.85 | 9.12  | 4.72  | 3.53 | 4.19 | 3.69 | 3.52 | 3.61 |
| 23   | 3.57 | 3.57 | 3.75 | 5.13 | 4.24 | 7.91  | 4.90  | 3.52 | 3.57 | 3.70 | 3.52 | 3.59 |
| 24   | 3.57 | 3.56 | 3.80 | 4.58 | 4.16 | 7.14  | 5.60  | 3.51 | 3.42 | 3.73 | 3.55 | 3.61 |
| 25   | 3.58 | 3.57 | 3.83 | 5.15 | 4.32 | 6.36  | 4.96  | 3.52 | 3.33 | 3.70 | 3.55 | 3.62 |
| 26   | 3.61 | 3.63 | 3.80 | 4.20 | 4.21 | 5.72  | 5.93  | 3.85 | 3.51 | 3.69 | 3.58 | 3.62 |
| 27   | 3.63 | 3.57 | 3.78 | 4.04 | 6.17 | 5.43  | 4.83  | 3.72 | 3.62 | 3.68 | 3.58 | 3.60 |
| 28   | 3.61 | 3.52 | 3.75 | 4.04 | 6.01 | 4.73  | 5.42  | 4.17 | 3.81 | 3.65 | 3.56 | 3.56 |
| 29   | 3.60 | 3.49 | 3.73 | 4.62 | 5.41 | 4.59  | 5.20  | 3.66 | 4.52 | 3.61 | 3.54 | 3.56 |
| 30   | 3.64 | 3.51 | 3.73 | 4.32 | ---  | 4.42  | 5.11  | 3.64 | 3.93 | 3.63 | 3.53 | 3.59 |
| 31   | 3.63 | ---  | 3.73 | 5.02 | ---  | 4.58  | ---   | 3.75 | ---  | 3.67 | 3.53 | ---  |
| MEAN | 3.62 | 3.69 | 3.96 | 4.43 | 4.62 | 5.96  | ---   | 3.99 | ---  | 3.58 | 3.59 | 3.59 |
| MAX  | 4.15 | 4.67 | 5.29 | 6.16 | 6.17 | 10.32 | ---   | 5.61 | ---  | 4.15 | 3.80 | 3.69 |

## MOBILE RIVER BASIN

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02433500 TOMBIGBEE RIVER AT BIGBEE, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-71, 1989 to April 2000 (discontinued).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY)<br>(80155) |
|--------------|------|-----------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|
| JAN<br>20... | 1230 | 445                                                                   | 32                                                                      | 38                                                                       |
| FEB<br>29... | 1115 | 1280                                                                  | 216                                                                     | 746                                                                      |
| APR<br>13... | 1025 | 2380                                                                  | 179                                                                     | 1150                                                                     |



## MOBILE RIVER BASIN

02435020 TOWN CREEK AT EASON BOULEVARD AT TUPELO, MS

LOCATION.--Lat 34°14'06", long 88°41'40", in NE1/4 NW1/4 sec.8, T.10 S., R.6 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, on left bank at downstream side of bridge on Eason Boulevard in Tupelo, 400 ft upstream from Kings Creek, 0.2 mi downstream from Mud Creek, 0.4 mi downstream from St. Louis and San Francisco Railroad, 2.0 mi upstream from Tulip Creek, and 22.8 mi upstream from mouth.

DRAINAGE AREA.--233 mi<sup>2</sup>, includes that of Kings Creek.

PERIOD OF RECORD.--October 1970 to current year. Daily mean gage heights published since October 1971.

REVISED RECORDS.--WDR MS 80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 230.00 ft above sea level.

REMARKS.--Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station

Note.--Records for 2000 Water Year will be published in a subsequent report.

LOCATION.--Lat 34°03'33", long 88°37'43", in NW1/4 NW1/4 sec.12, T.12 S., R.6 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160102, near right bank on upstream side of upstream bridge on U.S. Highway 45, 1.5 mi downstream from Chiwapa Creek, 2.1 mi south of Nettleton, and 9.2 mi upstream from mouth.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October and November 1939, published in WSP 1304. Prior to October 1970, published as West Fork Tombigbee River near Nettleton.

GAGE.--Water-stage recorder. Datum of gage is 194.01 ft above sea level (levels by U. S. Army Corps of Engineers).  
Prior to Oct. 1, 1947, at datum 10.00 ft higher.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1892, that of Mar. 22, 1955. Flood of Dec. 24, 1926, reached a stage of 32.5 ft. present datum, from floodmark.

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 2 | 1600 | *24.000                           | *26.89              | No other peak greater than base discharge. |      |                                   |                     |

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP   |
|-------|------|------|------|------|-------|-------|-------|------|------|------|------|-------|
| 1     | 24   | 46   | 25   | 39   | 159   | 254   | 307   | 158  | 32   | 110  | 27   | 9.8   |
| 2     | 23   | 61   | 25   | 39   | 129   | 212   | 20200 | 142  | 29   | 64   | 22   | 10    |
| 3     | 25   | 42   | 26   | 53   | 112   | 188   | 18600 | 134  | 225  | 49   | 19   | 9.5   |
| 4     | 25   | 34   | 30   | 172  | 91    | 178   | 9990  | 132  | 336  | 40   | 20   | 9.0   |
| 5     | 26   | 32   | 42   | 81   | 79    | 160   | 3700  | 135  | 136  | 32   | 29   | 8.3   |
| 6     | 26   | 31   | 59   | 62   | 75    | 147   | 2590  | 117  | 86   | 29   | 19   | 11    |
| 7     | 26   | 31   | 44   | 52   | 80    | 136   | 2000  | 102  | 52   | 24   | 16   | 15    |
| 8     | 28   | 32   | 37   | 48   | 68    | 128   | 2690  | 91   | 39   | 21   | 32   | 92    |
| 9     | 78   | 32   | 32   | 278  | 63    | 145   | 1560  | 83   | 32   | 18   | 27   | 44    |
| 10    | 74   | 32   | 90   | 158  | 61    | 283   | 1050  | 79   | 28   | 16   | 21   | 38    |
| 11    | 43   | 31   | 69   | 81   | 59    | 3760  | 759   | 74   | 25   | 17   | 74   | 21    |
| 12    | 33   | 31   | 60   | 65   | 58    | 1200  | 824   | 67   | 24   | 15   | 48   | 20    |
| 13    | 29   | 31   | 729  | 61   | 62    | 589   | 3930  | 60   | 23   | 65   | 23   | 41    |
| 14    | 28   | 30   | 223  | 57   | 434   | 417   | 2200  | 56   | 21   | 18   | 17   | 17    |
| 15    | 27   | 27   | 105  | 54   | 209   | 342   | 1240  | 53   | 22   | 19   | 15   | 13    |
| 16    | 27   | 25   | 71   | 53   | 129   | 472   | 841   | 49   | 23   | 37   | 14   | 11    |
| 17    | 27   | 25   | 61   | 65   | 706   | 726   | 635   | 47   | 127  | 20   | 14   | 10    |
| 18    | 26   | 26   | 53   | 75   | 1310  | 392   | 490   | 43   | 730  | 16   | 13   | 9.6   |
| 19    | 26   | 26   | 50   | 67   | 494   | 7120  | 413   | 41   | 335  | 14   | 12   | 10    |
| 20    | 28   | 53   | 48   | 57   | 307   | 4380  | 358   | 40   | 126  | 12   | 12   | 11    |
| 21    | 27   | 48   | 58   | 54   | 218   | 2020  | 292   | 42   | 199  | 53   | 12   | 13    |
| 22    | 28   | 38   | 71   | 72   | 176   | 1300  | 250   | 41   | 121  | 23   | 12   | 14    |
| 23    | 27   | 32   | 58   | 250  | 151   | 868   | 229   | 40   | 68   | 129  | 12   | 12    |
| 24    | 26   | 34   | 51   | 172  | 139   | 620   | 335   | 38   | 50   | 81   | 11   | 19    |
| 25    | 27   | 35   | 46   | 104  | 126   | 547   | 415   | 36   | 40   | 33   | 11   | 13    |
| 26    | 27   | 45   | 44   | 79   | 122   | 512   | 313   | 38   | 31   | 24   | 12   | 12    |
| 27    | 28   | 36   | 43   | 71   | e2050 | 442   | 236   | 37   | 173  | 19   | 12   | 11    |
| 28    | e28  | 32   | 43   | 76   | e520  | 387   | 295   | 203  | 657  | 16   | 10   | 11    |
| 29    | 29   | 29   | 42   | 321  | e330  | 326   | 224   | 86   | 288  | 15   | 10   | 12    |
| 30    | 27   | 27   | 41   | 387  | --    | 301   | 182   | 46   | 261  | 19   | 10   | 11    |
| 31    | 27   | ---  | 40   | 235  | ---   | 268   | ---   | 37   | ---  | 27   | 10   | ---   |
| TOTAL | 950  | 1034 | 2416 | 3438 | 8517  | 28820 | 77148 | 2347 | 4339 | 1075 | 596  | 538.2 |
| MEAN  | 30.6 | 34.5 | 77.9 | 111  | 294   | 930   | 2572  | 75.7 | 145  | 34.7 | 19.2 | 17.9  |
| MAX   | 78   | 61   | 729  | 387  | 2050  | 7120  | 20200 | 203  | 730  | 129  | 74   | 92    |
| MIN   | 23   | 25   | 25   | 39   | 58    | 128   | 182   | 36   | 21   | 12   | 10   | 8.3   |
| CFSM  | .05  | .06  | .13  | .18  | .47   | 1.50  | 4.15  | .12  | .23  | .06  | .03  | .03   |
| IN.   | .06  | .06  | .14  | .21  | .51   | 1.73  | 4.63  | .14  | .26  | .06  | .04  | .03   |

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 150  | 696  | 1385 | 1694 | 1932 | 2150 | 1560 | 1004 | 504  | 365  | 172  | 200  |
| MAX  | 1043 | 6074 | 8062 | 6105 | 5740 | 6215 | 5434 | 8377 | 3924 | 2512 | 1381 | 2208 |
| (WY) | 1976 | 1958 | 1983 | 1949 | 1948 | 1975 | 1991 | 1991 | 1997 | 1940 | 1967 | 1958 |
| MIN  | 3.97 | 14.7 | 40.3 | 66.6 | 294  | 240  | 105  | 63.6 | 19.0 | 22.4 | 7.12 | 5.39 |
| (WY) | 1944 | 1954 | 1966 | 1956 | 2000 | 1954 | 1986 | 1943 | 1988 | 1942 | 1954 | 1954 |

|                          |        |        |          |        |  |        |             |
|--------------------------|--------|--------|----------|--------|--|--------|-------------|
| ANNUAL TOTAL             | 344806 |        | 131218.2 |        |  |        |             |
| ANNUAL MEAN              | 945    |        | 359      |        |  | 980    |             |
| HIGHEST ANNUAL MEAN      |        |        |          |        |  | 2342   | 1991        |
| LOWEST ANNUAL MEAN       |        |        |          |        |  | 306    | 1954        |
| HIGHEST DAILY MEAN       | 23700  | Jan 23 | 20200    | Apr 2  |  | 95300  | Mar 22 1955 |
| LOWEST DAILY MEAN        | 22     | Sep 16 | 8.3      | Sep 5  |  | 1.0    | Sep 14 1942 |
| ANNUAL SEVEN-DAY MINIMUM | 23     | Sep 15 | 9.5      | Aug 30 |  | 1.6    | Oct 8 1942  |
| INSTANTANEOUS PEAK FLOW  |        |        | 24000    | Apr 2  |  | 151000 | Mar 22 1955 |
| INSTANTANEOUS PEAK STAGE |        |        | 26.89    | Apr 2  |  | 33.88  | Mar 22 1955 |
| ANNUAL RUNOFF (CFPM)     | 1.52   |        | .58      |        |  | 1.58   |             |
| ANNUAL RUNOFF (INCHES)   | 20.69  |        | 7.87     |        |  | 21.47  |             |
| 10 PERCENT EXCEEDS       | 2460   |        | 491      |        |  | 2140   |             |
| 50 PERCENT EXCEEDS       | 130    |        | 48       |        |  | 199    |             |
| 90 PERCENT EXCEEDS       | 26     |        | 14       |        |  | 21     |             |

e Estimated

## 02437100 TOMBIGBEE RIVER AT ABERDEEN LOCK AND DAM AT ABERDEEN, MS

LOCATION.--Lat. 33°49'48", long 88°31'12" in NE1/4 SW1/4 sec. 22, T.14 S., R.19 W., Huntsville Meridian, Hydrologic Unit 03160101, Monroe County, 0.85 mi upstream from (02437500) Tombigbee River at Aberdeen and at mile 362.98.

DRAINAGE AREA.--2,047 mi<sup>2</sup>, prior to construction of Tennessee-Tombigbee Waterway.

PERIOD OF RECORD.--August 1928 to September 1958, October 1958 to September 1971 (annual maximums only), October 1971 to September 1982, May 1984 to current year. Prior to October 1982, published as "02437500 Tombigbee River at Aberdeen." Daily mean gage-heights published from October 1971 to September 1982. Gage-height records collected at site 0.45 mi upstream since 1909 are contained in reports of National Weather Service.

GAGE.--Water-stage, gate-position, and lockage recorder. Datum of gage is 150 ft above national Geodetic Vertical Datum of 1929 (Levels by U. S. Army Corps of Engineers). Prior to October 1, 1982, water-stage recorder at site 0.85 mi downstream at datum 4.71 ft higher (see 02437500 Tombigbee River at Aberdeen, MS).

REMARKS.--No estimated daily discharges. Records fair above 1,000 ft<sup>3</sup>/s and poor below due to variable backwater from Columbus Lock and Dam. Regulation for maintenance of navigational pool only since May 1984. Statistics shown below are for water years 1984 to the current year, except for instantaneous extremes, which are shown for the entire period of record. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG | SEP |
|------|------|------|------|------|------|-------|-------|------|------|------|-----|-----|
| 1    | 503  | 1460 | 474  | 685  | 2300 | 2290  | 1830  | 2790 | 504  | 1580 | 182 | 556 |
| 2    | 377  | 1710 | 909  | 1210 | 1490 | 1830  | 29700 | 1410 | 619  | 1060 | 966 | 477 |
| 3    | 439  | 439  | 1310 | 2250 | 920  | 2240  | 52100 | 1720 | 442  | 824  | 639 | 266 |
| 4    | 350  | 940  | 605  | 3470 | 1650 | 1450  | 53000 | 1530 | 2040 | 438  | 616 | 410 |
| 5    | 414  | 741  | 977  | 2660 | 1190 | 930   | 34300 | 1570 | 1500 | 636  | 637 | 626 |
| 6    | 403  | 652  | 1410 | 2450 | 872  | 1600  | 22400 | 1560 | 887  | 767  | 616 | 354 |
| 7    | 439  | 566  | 1100 | 1790 | 1270 | 1340  | 13500 | 1470 | 1030 | 493  | 700 | 490 |
| 8    | 815  | 360  | 667  | 1430 | 1030 | 969   | 11300 | 1520 | 449  | 442  | 513 | 672 |
| 9    | 1450 | 658  | 741  | 2550 | 833  | 1750  | 8400  | 886  | 810  | 532  | 513 | 576 |
| 10   | 1150 | 537  | 2170 | 1900 | 1310 | 2670  | 6130  | 1670 | 368  | 1120 | 671 | 596 |
| 11   | 1190 | 561  | 982  | 2850 | 1080 | 11000 | 4510  | 838  | 1080 | 406  | 527 | 576 |
| 12   | 714  | 869  | 2070 | 1820 | 881  | 5290  | 4110  | 654  | 521  | 912  | 684 | 596 |
| 13   | 511  | 862  | 2730 | 1720 | 1400 | 4220  | 9380  | 1480 | 493  | 599  | 532 | 618 |
| 14   | 409  | 475  | 2030 | 1450 | 2440 | 3870  | 10400 | 610  | 511  | 670  | 532 | 659 |
| 15   | 549  | 593  | 1860 | 870  | 2290 | 2550  | 6920  | 852  | 692  | 510  | 539 | 524 |
| 16   | 552  | 414  | 988  | 1040 | 1820 | 3670  | 7050  | 1230 | 411  | 949  | 357 | 265 |
| 17   | 643  | 578  | 1110 | 1740 | 2160 | 3270  | 5700  | 580  | 796  | 888  | 576 | 458 |
| 18   | 460  | 485  | 1410 | 1600 | 4840 | 2960  | 3980  | 452  | 1800 | 331  | 555 | 576 |
| 19   | 597  | 607  | 1070 | 1680 | 3360 | 12000 | 3120  | 1040 | 1870 | 405  | 617 | 534 |
| 20   | 726  | 1350 | 1150 | 1300 | 2810 | 13700 | 2470  | 1190 | 1520 | 683  | 488 | 350 |
| 21   | 354  | 1110 | 1620 | 1170 | 1440 | 7480  | 2800  | 1090 | 1610 | 574  | 224 | 783 |
| 22   | 651  | 1210 | 834  | 1150 | 2320 | 6850  | 1980  | 571  | 1780 | 595  | 340 | 264 |
| 23   | 802  | 418  | 770  | 2230 | 1240 | 5570  | 2200  | 636  | 1140 | 554  | 556 | 428 |
| 24   | 617  | 999  | 674  | 1770 | 1370 | 4320  | 2930  | 581  | 901  | 1050 | 597 | 576 |
| 25   | 431  | 875  | 778  | 2330 | 1640 | 3250  | 2180  | 1060 | 666  | 222  | 554 | 617 |
| 26   | 333  | 1420 | 583  | 1460 | 1680 | 3030  | 2980  | 1070 | 583  | 859  | 315 | 638 |
| 27   | 490  | 686  | 956  | 898  | 5080 | 2620  | 1920  | 1270 | 952  | 551  | 286 | 297 |
| 28   | 634  | 1020 | 845  | 1560 | 3570 | 2170  | 2110  | 1170 | 1620 | 532  | 820 | 372 |
| 29   | 310  | 1040 | 517  | 2050 | 2280 | 2010  | 2360  | 1090 | 2050 | 2050 | 274 | 545 |
| 30   | 444  | 786  | 626  | 2290 | ---  | 1820  | 2220  | 610  | 1340 | 194  | 141 | 594 |
| 31   | 542  | ---  | 1240 | 2290 | ---  | 2140  | ---   | 730  | ---  | 178  | 556 | --- |
| MEAN | 590  | 814  | 1136 | 1796 | 1951 | 3899  | 10470 | 1127 | 1033 | 697  | 520 | 510 |
| MAX  | 1450 | 1710 | 2730 | 3470 | 5080 | 13700 | 53000 | 2790 | 2050 | 2050 | 966 | 783 |
| MIN  | 310  | 360  | 474  | 685  | 833  | 930   | 1830  | 452  | 368  | 178  | 141 | 264 |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

|      | 1984 | 1985 | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| MEAN | 1289 | 2551 | 5635  | 6042  | 7357  | 6990  | 5198  | 4739  | 3434  | 1964  | 1156 | 897  |      |      |      |      |      |
| MAX  | 2305 | 8154 | 15520 | 13090 | 17580 | 11750 | 16630 | 29390 | 14180 | 10680 | 2306 | 1693 |      |      |      |      |      |
| (WY) | 1995 | 1987 | 1991  | 1999  | 1991  | 1995  | 1991  | 1991  | 1997  | 1989  | 1998 | 1996 |      |      |      |      |      |
| MIN  | 474  | 814  | 1136  | 978   | 1951  | 2571  | 929   | 853   | 479   | 411   | 349  | 220  |      |      |      |      |      |
| (WY) | 1988 | 2000 | 2000  | 1986  | 2000  | 1985  | 1986  | 1988  | 1988  | 1984  | 1984 | 1984 |      |      |      |      |      |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1984 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL MEAN              | 3817                   | 2033                | 3952                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 8424                    |
| LOWEST ANNUAL MEAN       |                        |                     | 1781                    |
| HIGHEST DAILY MEAN       | 45400                  | Jan 24              | 103000                  |
| LOWEST DAILY MEAN        | 203                    | Sep 18              | 77                      |
| ANNUAL SEVEN-DAY MINIMUM | 388                    | Sep 22              | 138                     |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 123000                  |
| INSTANTANEOUS PEAK STAGE |                        |                     | 45.02                   |
| 10 PERCENT EXCEEDS       | 9810                   |                     | 9130                    |
| 50 PERCENT EXCEEDS       | 1450                   |                     | 1800                    |
| 90 PERCENT EXCEEDS       | 430                    |                     | 493                     |

LOCATION.--Lat 33°47'24", long 88°18'55", in NW1/4 SW1/4 sec.3, T.15 S., R.17 W., Huntsville Meridian, Monroe County, Hydrologic Unit 03160103, near right bank on downstream side of bridge on county highway, 10.1 mi downstream from Sipsey Creek, 13.7 mi southeast of Aberdeen, and 28.6 mi upstream from the mouth.

DRAINAGE AREA.--798 mi<sup>2</sup>.

## WATER DISCHARGE RECORDS

PERIOD OF RECORD.--July 1966 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 220.77 ft Mississippi Department of Transportation datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter and U. S. Army Corps of Engineers telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1892 and 1893 reached stages of 21 ft, and floods Feb. 4, 1951 and Mar. 30, 1951, reached stages of 19.46 ft and 19.56 ft, respectively, from information by local residents, flood of Apr. 12, 1962, reached a stage of 19.01 ft, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 5 | 1130 | *24,000                           | *18.14              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|--------|-------|------|------|------|------|
| 1     | 137  | 189  | 256   | 297   | 1280  | 651   | 737    | 750   | 219  | 485  | 119  | 64   |
| 2     | 151  | 226  | 246   | 294   | 1010  | 566   | 2250   | 663   | 203  | 320  | 126  | 63   |
| 3     | 142  | 553  | 239   | 303   | 839   | 524   | 5200   | 613   | 193  | 245  | 122  | 61   |
| 4     | 136  | 620  | 239   | 490   | 712   | 545   | 16300  | 575   | 190  | 211  | 132  | 59   |
| 5     | 127  | 367  | 248   | 1150  | 635   | 541   | 22500  | 537   | 204  | 189  | 162  | 56   |
| 6     | 124  | 272  | 263   | 1220  | 573   | 514   | 13100  | 523   | 224  | 176  | 152  | 56   |
| 7     | 119  | 240  | 309   | 804   | 525   | 469   | 7540   | 512   | 254  | 164  | 138  | 58   |
| 8     | 124  | 228  | 322   | 609   | 497   | 442   | 4920   | 447   | 245  | 153  | 138  | 61   |
| 9     | 148  | 221  | 281   | 606   | 477   | 420   | 3390   | 409   | 216  | 145  | 137  | 70   |
| 10    | 183  | 217  | 282   | 917   | 463   | 427   | 2670   | 379   | 195  | 138  | 127  | 86   |
| 11    | 241  | 212  | 343   | 1300  | 448   | 626   | 1990   | 365   | 181  | 135  | 112  | 106  |
| 12    | 262  | 209  | 458   | 991   | 440   | 1450  | 1590   | 339   | 170  | 129  | 108  | 99   |
| 13    | 235  | 207  | 454   | 765   | 439   | 1580  | 1570   | 313   | 165  | 135  | 104  | 100  |
| 14    | 200  | 208  | 647   | 671   | 471   | 1130  | 2010   | 291   | 160  | 135  | 96   | 95   |
| 15    | 181  | 209  | 866   | 581   | 752   | 898   | 2780   | 269   | 187  | 199  | 92   | 103  |
| 16    | 172  | 209  | 625   | 506   | 793   | 782   | 3470   | 253   | 188  | 174  | 89   | 92   |
| 17    | 167  | 208  | 471   | 486   | 634   | 820   | 2820   | 242   | 272  | 147  | 87   | 82   |
| 18    | 164  | 207  | 398   | 550   | 602   | 922   | 1820   | 235   | 228  | 135  | 85   | 74   |
| 19    | 164  | 208  | 366   | 773   | 582   | 969   | 1450   | 227   | 218  | 130  | 83   | 69   |
| 20    | 164  | 218  | 372   | 718   | 651   | 1360  | 1240   | 220   | 280  | 123  | 77   | 67   |
| 21    | 163  | 239  | 401   | 625   | 634   | 2010  | 1090   | 220   | 303  | 119  | 72   | 72   |
| 22    | 162  | 318  | 433   | 550   | 552   | 2120  | 988    | 229   | 306  | 117  | 71   | 85   |
| 23    | 164  | 310  | 491   | 557   | 509   | 1540  | 912    | 233   | 602  | 115  | 71   | 101  |
| 24    | 163  | 275  | 448   | 853   | 485   | 1160  | 862    | 228   | 632  | 118  | 70   | 105  |
| 25    | 160  | 268  | 391   | 959   | 463   | 978   | 874    | 219   | 389  | 138  | 68   | 101  |
| 26    | 160  | 356  | 354   | 799   | 450   | 863   | 893    | 221   | 272  | 167  | 67   | 100  |
| 27    | 162  | 407  | 333   | 695   | 469   | 823   | 786    | 242   | 228  | 136  | 67   | 97   |
| 28    | 165  | 372  | 321   | 642   | 614   | 863   | 702    | 306   | 212  | 126  | 67   | 94   |
| 29    | 168  | 307  | 314   | 706   | 832   | 872   | 863    | 260   | 216  | 121  | 68   | 89   |
| 30    | 168  | 271  | 305   | 1070  | ---   | 800   | 924    | 273   | 526  | 120  | 70   | 84   |
| 31    | 168  | ---  | 299   | 1470  | ---   | 759   | ---    | 249   | ---  | 114  | 67   | ---  |
| TOTAL | 5144 | 8351 | 11775 | 22957 | 17831 | 28424 | 108241 | 10842 | 7878 | 5059 | 3044 | 2449 |
| MEAN  | 166  | 278  | 380   | 741   | 615   | 917   | 3608   | 350   | 263  | 163  | 98.2 | 81.6 |
| MAX   | 262  | 620  | 866   | 1470  | 1280  | 2120  | 22500  | 750   | 632  | 485  | 162  | 106  |
| MIN   | 119  | 189  | 239   | 294   | 439   | 420   | 702    | 219   | 160  | 114  | 67   | 56   |
| MED   | 164  | 234  | 343   | 695   | 573   | 823   | 1700   | 273   | 218  | 136  | 89   | 84   |
| CFSM  | .21  | .35  | .48   | .93   | .77   | 1.15  | 4.52   | .44   | .33  | .20  | .12  | .10  |
| IN.   | .24  | .39  | .55   | 1.07  | .83   | 1.33  | 5.05   | .51   | .37  | .24  | .14  | .11  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

|      | MEAN | 513  | 965  | 1927 | 2454 | 2312 | 2773 | 2319 | 1751 | 839  | 566  | 389  | 364 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 2349 | 2938 | 5698 | 4954 | 5459 | 6815 | 6130 | 8329 | 5020 | 1880 | 1175 | 1051 |     |
| (WY) | 1976 | 1978 | 1968 | 1974 | 1991 | 1980 | 1991 | 1991 | 1997 | 1994 | 1975 | 1979 |     |
| MIN  | 134  | 275  | 380  | 519  | 615  | 703  | 461  | 315  | 136  | 163  | 98.2 | 81.6 |     |
| (WY) | 1988 | 1988 | 2000 | 1986 | 2000 | 1988 | 1986 | 1992 | 1988 | 2000 | 2000 | 2000 |     |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1966 - 2000

|                          |        |        |       |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 430551 | 231995 |       |
| ANNUAL MEAN              | 1180   | 634    | 1428  |
| HIGHEST ANNUAL MEAN      |        |        | 2747  |
| LOWEST ANNUAL MEAN       |        |        | 503   |
| HIGHEST DAILY MEAN       | 21000  | Jan 25 | 63900 |
| LOWEST DAILY MEAN        | 110    | Sep 19 | 56    |
| ANNUAL SEVEN-DAY MINIMUM | 112    | Sep 18 | 59    |
| INSTANTANEOUS PEAK FLOW  |        |        | 24000 |
| INSTANTANEOUS PEAK STAGE |        |        | 18.14 |
| INSTANTANEOUS LOW FLOW   |        |        | 54    |
| ANNUAL RUNOFF (CFSM)     | 1.48   | .79    | 1.79  |
| ANNUAL RUNOFF (INCHES)   | 20.07  | 10.81  | 24.31 |
| 10 PERCENT EXCEEDS       | 2900   | 989    | 3070  |
| 50 PERCENT EXCEEDS       | 491    | 272    | 748   |
| 90 PERCENT EXCEEDS       | 131    | 93     | 220   |

## MOBILE RIVER BASIN

02439400 BUTTAHATCHEE RIVER NEAR ABERDEEN, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-75, 1989 to April 2000 (discontinued).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY)<br>(80155) |
|--------------|------|-----------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| JAN<br>19... | 1310 | 843                                                                   | 34                                                   | 77                                                                       |
| MAR<br>01... | 1210 | 646                                                                   | 38                                                   | 66                                                                       |
| APR<br>12... | 1300 | 1520                                                                  | 40                                                   | 164                                                                      |



## 02440500 CHUQUATONCHEE CREEK NEAR WEST POINT, MS

LOCATION.--Lat 33°36'27", Long 88°42'33", in NW1/4 NE1/4 sec.18, T.17 S., R.6 E., Chickasaw Meridian, Clay County, Hydrologic Unit 03160104, at bridge on State Highway 50, 3.0 mi west of West Point.

DRAINAGE AREA.--505 mi<sup>2</sup>.

PERIOD OF RECORD.-- October 1943 to September 1946, October 1947 to September 1973, and April 1996 to current water year.

REVISED RECORDS.--WDR MS-98-1: Drainage area.

GAGE.--Water stage recorder. Datum of gage is 170.00 ft above sea level (U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Oct. 1-7, May 16-25, Jun. 1, Aug. 7-31, and Sept. 1-12, 29-30. Records fair except for periods of estimated daily discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT    | NOV   | DEC   | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL    | AUG  | SEP  |
|-------|--------|-------|-------|------|------|-------|-------|------|------|--------|------|------|
| 1     | e15    | 2.7   | 9.7   | 20   | 269  | 210   | 172   | 104  | e22  | 112    | 2.3  | e.01 |
| 2     | e7.6   | 4.6   | 21    | 20   | 180  | 153   | 3590  | 92   | 20   | 51     | 1.3  | e.01 |
| 3     | e4.3   | 5.2   | 15    | 23   | 135  | 118   | 12400 | 86   | 18   | 31     | .77  | e.01 |
| 4     | e2.5   | 8.1   | 7.2   | 462  | 109  | 107   | 25100 | 81   | 138  | 22     | .47  | e.01 |
| 5     | e1.5   | 12    | 7.6   | 423  | 90   | 107   | 18000 | 77   | 329  | 18     | .32  | e.01 |
| 6     | e1.2   | 14    | 11    | 111  | 76   | 92    | 10400 | 73   | 195  | 15     | .25  | e.01 |
| 7     | e1.1   | 5.5   | 16    | 60   | 69   | 80    | 5890  | 66   | 125  | 12     | e.23 | e.01 |
| 8     | 5.8    | 3.8   | 24    | 46   | 65   | 72    | 2830  | 59   | 66   | 10     | e.20 | e.01 |
| 9     | 33     | 5.1   | 21    | 161  | 59   | 66    | 1920  | 53   | 40   | 8.5    | e.18 | e.01 |
| 10    | 19     | 4.8   | 20    | 588  | 57   | 98    | 1460  | 50   | 30   | 7.3    | e.15 | e.04 |
| 11    | 18     | 8.1   | 30    | 233  | 53   | 1450  | 695   | 50   | 24   | 6.5    | e.13 | e.05 |
| 12    | 7.6    | 9.2   | 31    | 112  | 50   | 2190  | 485   | 50   | 20   | 6.0    | e.11 | e.07 |
| 13    | 4.7    | 10    | 60    | 80   | 48   | 1350  | 1150  | 41   | 18   | 5.4    | e.08 | .08  |
| 14    | 2.6    | 10    | 232   | 68   | 178  | 386   | 2240  | 36   | 17   | 7.5    | e.06 | .08  |
| 15    | 1.5    | 12    | 106   | 61   | 237  | 234   | 3220  | 33   | 21   | 9.1    | e.03 | .69  |
| 16    | 1.2    | 13    | 55    | 51   | 148  | 194   | 2740  | e31  | 15   | 15     | e.03 | .90  |
| 17    | .73    | 12    | 37    | 46   | 103  | 242   | 800   | e29  | 64   | 9.2    | e.03 | .54  |
| 18    | .44    | 13    | 28    | 46   | 96   | 243   | 410   | e28  | 165  | 5.5    | e.03 | .35  |
| 19    | .39    | 14    | 24    | 46   | 293  | 485   | 320   | e25  | 315  | 3.9    | e.02 | .26  |
| 20    | 1.4    | 16    | 21    | 43   | 316  | 1970  | 269   | e24  | 177  | 3.3    | e.02 | .16  |
| 21    | 1.4    | 23    | 22    | 41   | 173  | 3380  | 235   | e22  | 75   | 2.7    | e.02 | .17  |
| 22    | 1.2    | 21    | 21    | 38   | 127  | 4410  | 205   | e21  | 88   | 1.8    | e.02 | .12  |
| 23    | 1.4    | 16    | 26    | 38   | 103  | 1940  | 184   | e20  | 484  | 1.3    | e.02 | .12  |
| 24    | 1.5    | 14    | 25    | 80   | 89   | 459   | 178   | e19  | 120  | 1.2    | e.02 | .11  |
| 25    | .77    | 15    | 21    | 84   | 80   | 312   | 213   | e17  | 50   | 1.0    | e.02 | .11  |
| 26    | .90    | 18    | 19    | 62   | 74   | 250   | 189   | 87   | 32   | .73    | e.02 | .08  |
| 27    | 1.0    | 16    | 18    | 51   | 368  | 221   | 156   | 310  | 24   | .48    | e.01 | .04  |
| 28    | .86    | 16    | 18    | 54   | 837  | 273   | 137   | 101  | 38   | .51    | e.01 | .02  |
| 29    | .62    | 14    | 17    | 262  | 354  | 217   | 130   | 68   | 197  | .92    | e.01 | e.01 |
| 30    | .93    | 11    | 17    | 802  | ---  | 229   | 118   | 53   | 326  | 5.0    | e.01 | e.01 |
| 31    | 1.3    | ---   | 17    | 487  | ---  | 199   | ---   | 34   | ---  | 4.6    | e.01 | ---  |
| TOTAL | 141.44 | 347.1 | 997.5 | 4699 | 4836 | 21737 | 95836 | 1840 | 3253 | 378.44 | 6.88 | 4.10 |
| MEAN  | 4.56   | 11.6  | 32.2  | 152  | 167  | 701   | 3195  | 59.4 | 108  | 12.2   | .22  | .14  |
| MAX   | 33     | 23    | 232   | 802  | 837  | 4410  | 25100 | 310  | 484  | 112    | 2.3  | .90  |
| MIN   | .39    | 2.7   | 7.2   | 20   | 48   | 66    | 118   | 17   | 15   | .48    | .01  | .01  |
| MED   | 1.4    | 12    | 21    | 61   | 103  | 234   | 590   | 50   | 57   | 6.0    | .03  | .06  |
| CFSM  | .01    | .02   | .06   | .30  | .33  | 1.39  | 6.33  | .12  | .21  | .02    | .00  | .00  |
| IN.   | .01    | .03   | .07   | .35  | .36  | 1.60  | 7.06  | .14  | .24  | .03    | .00  | .00  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

|      | MEAN | 77.0 | 313  | 918  | 1483 | 1857 | 1829 | 1357 | 686  | 303  | 279  | 89.5 | 113 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 1177 | 4459 | 5071 | 4927 | 5088 | 4970 | 4060 | 3106 | 2978 | 1794 | 694  | 2096 |     |
| (WY) | 1958 | 1958 | 1962 | 1949 | 1948 | 1973 | 1964 | 1997 | 1997 | 1963 | 1946 | 1950 |     |
| MIN  | .000 | .000 | 7.87 | 19.0 | 167  | 233  | 123  | 42.9 | 11.3 | 10.6 | .000 | .000 |     |
| (WY) | 1953 | 1954 | 1944 | 1956 | 2000 | 1954 | 1967 | 1965 | 1965 | 1969 | 1954 | 1954 |     |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1944 - 2000

|                          |           |           |       |
|--------------------------|-----------|-----------|-------|
| ANNUAL TOTAL             | 320306.04 | 134076.46 |       |
| ANNUAL MEAN              | 878       | 366       | 770   |
| HIGHEST ANNUAL MEAN      |           |           | 1371  |
| LOWEST ANNUAL MEAN       |           |           | 249   |
| HIGHEST DAILY MEAN       | 12700     | 25100     | 48400 |
| LOWEST DAILY MEAN        | .39       | .01       | .00   |
| ANNUAL SEVEN-DAY MINIMUM | .91       | .01       | .00   |
| INSTANTANEOUS PEAK FLOW  |           | 26600     | 57100 |
| INSTANTANEOUS PEAK STAGE |           | 20.93     | 24.58 |
| INSTANTANEOUS LOW FLOW   |           | .01a      | .00   |
| ANNUAL RUNOFF (CFSM)     | 1.74      | .73       | 1.52  |
| ANNUAL RUNOFF (INCHES)   | 23.59     | 9.88      | 20.72 |
| 10 PERCENT EXCEEDS       | 2870      | 336       | 2220  |
| 50 PERCENT EXCEEDS       | 81        | 23        | 96    |
| 90 PERCENT EXCEEDS       | 7.9       | .08       | 2.0   |

e Estimated

a Observed, may have been lower during periods of estimated record.

02441390 Tombigbee River at Stennis Lock and Dam, Near Columbus, MS  
(Formerly published as Tombigbee River at Columbus Lock and Dam, near Columbus, MS)

LOCATION.--Lat 33°31'03", long 88°29'22", in NE1/4 sec.11, T.18 S., R.19 W., Huntsville Meridian, Lowndes County, Hydrologic Unit 03160101, at control tower on right bank of lock, 3.5 mi northwest of Columbus, 4.1 mi upstream from 02441500 Tombigbee River at Columbus, 6.4 mi upstream from Luxapallila Creek, and at mile 325.3.

DRAINAGE AREA.--4,440 mi<sup>2</sup>, prior to construction of Tennessee-Tombigbee Waterway.

PERIOD OF RECORD.--October 1899 to December 1912. August 1928 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to April 1981, published as "02441500 Tombigbee River at Columbus". Gage-height records collected in this vicinity, 1890 to 1971, are contained in reports of National Weather Service, and 1972 to present at site 02441500 Tombigbee River at Columbus.

GAGE.--Water-stage, gate-position, and lockage recorder. Datum of gage is 100.00 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to April 1, 1982, water-stage recorder at site 4.1 mi downstream at datum 28.91 ft higher (see 02441500 Tombigbee River at Columbus). Water-stage recorder for Tombigbee River at Columbus (station 02441500) is used as base gage for this station when tail water gage-heights exceed 63 ft.

REMARKS.--No estimated daily discharges. Records fair except those below 1,000 ft<sup>3</sup>/s, which are poor. Reservoir is formed by earth fill dam with concrete spillway with five 60 ft wide tainter gates with sill elevation of 138.0 ft above sea level and 110 ft by 600 ft lock with maximum lift of 27 ft at normal pool elevation of 163.0 ft above sea level. Minimum flow structure with manually operated gates and maximum discharge of about 300 ft<sup>3</sup>/s at normal pool. Storage began Jan. 16, 1981, dam completed Jan. 29, 1981. Capacity 59,500 acre-ft at normal pool. Regulation for maintenance of navigational pool only. Beginning April 1, 1981, daily discharge computed from relation between discharge, head, gate openings, lockages, and minimum flow structure. Statistics shown below are for water years 1982 to the current year, except for instantaneous extremes, which are shown for the entire period of record at the datum then in use. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1892, the greatest since at least 1867, reached an elevation of 173.0 ft above sea level at site 3.93 mi downstream, discharge 278,000 ft<sup>3</sup>/s estimated by U. S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 596   | 2510  | 718   | 815   | 4450  | 3590   | 2760   | 3830  | 869   | 2120  | 348   | 415   |
| 2     | 630   | 1940  | 820   | 1080  | 3170  | 2730   | 47200  | 2050  | 1030  | 1130  | 543   | 435   |
| 3     | 565   | 512   | 1640  | 2110  | 1900  | 2930   | 77600  | 2740  | 1010  | 1520  | 1440  | 472   |
| 4     | 445   | 1180  | 466   | 6180  | 2970  | 2420   | 92600  | 2510  | 2400  | 767   | 735   | 386   |
| 5     | 503   | 1710  | 1220  | 3750  | 1960  | 1610   | 92600  | 2390  | 1790  | 692   | 743   | 286   |
| 6     | 463   | 825   | 1390  | 3030  | 1610  | 2150   | 67300  | 1970  | 1500  | 928   | 726   | 372   |
| 7     | 543   | 1230  | 1520  | 3000  | 2150  | 2650   | 45100  | 2230  | 1400  | 1130  | 770   | 459   |
| 8     | 1420  | 702   | 635   | 1930  | 1680  | 1320   | 28700  | 2190  | 1060  | 443   | 590   | 752   |
| 9     | 1550  | 832   | 819   | 3330  | 1470  | 2640   | 17400  | 1580  | 871   | 408   | 688   | 724   |
| 10    | 1110  | 833   | 2180  | 3270  | 2140  | 3030   | 12900  | 2080  | 1010  | 708   | 895   | 690   |
| 11    | 1840  | 772   | 1560  | 4580  | 2100  | 16700  | 8600   | 1660  | 872   | 921   | 815   | 710   |
| 12    | 496   | 858   | 1920  | 2850  | 1530  | 9500   | 6960   | 1240  | 955   | 892   | 932   | 859   |
| 13    | 611   | 1420  | 2700  | 2770  | 1990  | 9060   | 16400  | 2220  | 991   | 1080  | 361   | 1080  |
| 14    | 947   | 566   | 2390  | 1660  | 3650  | 6760   | 19200  | 1330  | 715   | 724   | 304   | 502   |
| 15    | 440   | 1160  | 2540  | 2000  | 3370  | 4430   | 13400  | 1270  | 820   | 775   | 412   | 777   |
| 16    | 531   | 869   | 1880  | 1240  | 2700  | 4980   | 13800  | 2020  | 941   | 1320  | 371   | 576   |
| 17    | 882   | 419   | 1430  | 2460  | 2660  | 4660   | 11800  | 1120  | 1160  | 678   | 561   | 417   |
| 18    | 987   | 860   | 1410  | 2180  | 5880  | 4080   | 7670   | 856   | 2230  | 784   | 673   | 424   |
| 19    | 604   | 776   | 1260  | 2160  | 4670  | 12500  | 5360   | 1360  | 2760  | 673   | 694   | 449   |
| 20    | 614   | 1580  | 1570  | 2530  | 3790  | 21400  | 4930   | 1850  | 2080  | 924   | 690   | 383   |
| 21    | 686   | 1040  | 1760  | 1620  | 2540  | 12700  | 4400   | 1840  | 1880  | 887   | 549   | 1140  |
| 22    | 575   | 1200  | 1120  | 2180  | 3140  | 13700  | 3530   | 878   | 2250  | 489   | 324   | 427   |
| 23    | 745   | 950   | 1120  | 3070  | 1760  | 12200  | 3730   | 822   | 1860  | 741   | 287   | 491   |
| 24    | 639   | 1210  | 1350  | 2530  | 1960  | 6600   | 4160   | 888   | 1760  | 630   | 355   | 685   |
| 25    | 516   | 969   | 794   | 2970  | 2780  | 4970   | 2850   | 1710  | 1420  | 855   | 459   | 1020  |
| 26    | 540   | 1280  | 894   | 2500  | 2100  | 4740   | 4390   | 1500  | 903   | 688   | 893   | 847   |
| 27    | 654   | 1070  | 1120  | 1540  | 6670  | 3730   | 3140   | 2170  | 1250  | 778   | 626   | 658   |
| 28    | 466   | 1050  | 1030  | 3100  | 5490  | 3600   | 3250   | 2010  | 2180  | 1160  | 459   | 356   |
| 29    | 727   | 1200  | 775   | 3750  | 3860  | 3130   | 3190   | 1560  | 2210  | 2130  | 682   | 421   |
| 30    | 679   | 998   | 702   | 5130  | ---   | 3120   | 3070   | 594   | 1930  | 651   | 640   | 581   |
| 31    | 568   | ---   | 1420  | 4740  | ---   | 3810   | ---    | 1200  | ---   | 305   | 344   | ---   |
| TOTAL | 22572 | 32521 | 42153 | 86055 | 86140 | 191440 | 627990 | 53668 | 44107 | 27931 | 18909 | 17794 |
| MEAN  | 728   | 1084  | 1360  | 2776  | 2970  | 6175   | 20930  | 1731  | 1470  | 901   | 610   | 593   |
| MAX   | 1840  | 2510  | 2700  | 6180  | 6670  | 21400  | 92600  | 3830  | 2760  | 2130  | 1440  | 1140  |
| MIN   | 440   | 419   | 466   | 815   | 1470  | 1320   | 2760   | 594   | 715   | 305   | 287   | 286   |
| CFSM  | .16   | .24   | .31   | .63   | .67   | 1.39   | 4.71   | .39   | .33   | .20   | .14   | .13   |
| IN.   | .19   | .27   | .35   | .72   | .72   | 1.60   | 5.26   | .45   | .37   | .23   | .16   | .15   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000, BY WATER YEAR (WY)

|      | MEAN | 2037  | 4055  | 12040 | 12340 | 14250 | 12990 | 12130 | 10140 | 5422  | 3099 | 1760 | 1342 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| MAX  | 5896 | 12940 | 36640 | 26290 | 33900 | 22820 | 37260 | 56740 | 24690 | 12310 | 3701 | 3001 |      |
| (WY) | 1985 | 1987  | 1983  | 1989  | 1991  | 1995  | 1983  | 1991  | 1997  | 1994  | 1998 | 1996 |      |
| MIN  | 585  | 483   | 1360  | 1799  | 2970  | 4308  | 1613  | 1284  | 626   | 901   | 574  | 305  |      |
| (WY) | 1988 | 1982  | 2000  | 1986  | 2000  | 1985  | 1986  | 1992  | 1988  | 2000  | 1999 | 1984 |      |

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1982 - 2000

|                          |         |         |             |
|--------------------------|---------|---------|-------------|
| ANNUAL TOTAL             | 2401502 | 1251280 |             |
| ANNUAL MEAN              | 6579    | 3419    |             |
| HIGHEST ANNUAL MEAN      |         | 7605    |             |
| LOWEST ANNUAL MEAN       |         | 15970   | 1991        |
| HIGHEST DAILY MEAN       | 67800   | 2742    | 1988        |
| LOWEST DAILY MEAN        | 285     | 286     | May 29 1991 |
| ANNUAL SEVEN-DAY MINIMUM | 438     | 387     | Sep 25 1984 |
| INSTANTANEOUS PEAK FLOW  |         | 103000  | Oct 20 1981 |
| INSTANTANEOUS PEAK STAGE |         | 62.47   | Mar 19 1973 |
| ANNUAL RUNOFF (CFSM)     | 1.48    | .77     | Mar 19 1973 |
| ANNUAL RUNOFF (INCHES)   | 20.12   | 10.48   |             |
| 10 PERCENT EXCEEDS       | 18400   | 4800    |             |
| 50 PERCENT EXCEEDS       | 1920    | 1320    |             |
| 90 PERCENT EXCEEDS       | 514     | 494     |             |

## 02441500 TOBIGBEE RIVER AT COLUMBUS, MS

LOCATION.--Lat 33°29'25", long 88°25'22", in NE1/4 NE1/4 sec.29, T.18 S., R.18 W., Huntsville Meridian, Lowndes County, Hydrologic Unit 03160101, on left bank at Columbus, 1,200 ft downstream from bridge on old U.S. Highway 45E and 82, 1,800 ft upstream from Gulf, Mobile and Ohio Railroad bridge, 2.3 mi upstream from Luxapallila Creek, 4.1 mi downstream from 02441390 Tombigbee River at Stennis Lock and Dam, near Columbus, 6.7 mi downstream from Tibbee Creek, and at mile 319.7.

DRAINAGE AREA.--4,463 mi<sup>2</sup>, prior to construction of Tennessee-Tombigbee Waterway.

PERIOD OF RECORD.--October 1899 to December 1912, August 1928 to March 1981, April 1981 to current year (gage heights only). Monthly discharge only for some periods, published in WSP 1304. Daily mean gage heights published since January 1972. Gage-height records collected in this vicinity, 1890 to 1971, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 662: Drainage area, WSP 727: 1928-29. WSP 802: 1929(M). WSP 1504: 1900-03, 1950.

GAGE.--Water-stage recorder. Datum of gage is 128.91 ft above sea level. Prior to Nov. 7, 1934, nonrecording gage at various sites within 0.2 mi of present site, at datum 4.00 ft higher prior to Mar. 13, 1934, and at present datum thereafter. Mar. 3, 1941 to Sept. 30, 1968, auxiliary nonrecording at gage site 3.7 mi upstream at different datum. Oct. 1, 1968, to Sept. 30, 1971, auxiliary nonrecording gage 2.1 mi upstream from base gage at datum 128.82 ft above sea level.

REMARKS.--Stage affected since Dec. 27, 1979, by Aliceville Lock and Dam 32.0 mi downstream, normal pool elevation 136.0 ft above sea level and since Jan. 16, 1981, by Columbus Lock and Dam, 4.1 mi upstream. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 194,000 ft<sup>3</sup>/s, March 19, 1973, gage height, 42.22 ft, site and datum then in use, minimum daily discharge, 120 ft<sup>3</sup>/s, Sept. 25, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1892, the greatest since at least 1867, reached an elevation of 173.0 ft above National Geodetic Vertical of 1929 at site 1,100 ft upstream (corresponding stage at gage about 44 ft) discharge 268,000 ft<sup>3</sup>/s estimated by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--See 02441390 for discharge records. Maximum gage height, 31.81 ft, Apr. 5, minimum daily, 7.37 ft, Sept. 5-7.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1    | 7.96 | 8.11 | 7.86 | 7.94 | 8.31 | 8.31  | 8.18  | 8.14 | 7.98 | 7.86 | 7.68 | 7.47 |
| 2    | 8.06 | 7.85 | 8.01 | 8.05 | 8.18 | 8.15  | 15.20 | 7.95 | 8.01 | 7.90 | 7.65 | 7.42 |
| 3    | 8.09 | 7.75 | 8.17 | 8.23 | 8.11 | 8.14  | 25.20 | 7.94 | 7.93 | 8.03 | 7.82 | 7.41 |
| 4    | 8.03 | 7.91 | 8.02 | 8.55 | 8.17 | 8.07  | 30.23 | 8.07 | 7.97 | 7.85 | 7.87 | 7.43 |
| 5    | 8.02 | 8.07 | 8.06 | 8.18 | 8.08 | 8.09  | 31.55 | 8.01 | 7.91 | 7.70 | 7.86 | 7.37 |
| 6    | 7.99 | 7.90 | 7.96 | 8.25 | 8.05 | 8.05  | 28.48 | 7.94 | 7.79 | 7.73 | 7.75 | 7.37 |
| 7    | 8.00 | 8.04 | 8.00 | 8.18 | 8.11 | 8.19  | 21.36 | 8.03 | 7.82 | 7.87 | 7.77 | 7.37 |
| 8    | 8.09 | 7.94 | 7.81 | 8.12 | 8.01 | 8.10  | 15.00 | 8.00 | 7.95 | 7.90 | 7.74 | 7.44 |
| 9    | 8.11 | 7.99 | 7.95 | 8.23 | 8.08 | 8.29  | 12.01 | 7.90 | 7.89 | 7.86 | 7.70 | 7.53 |
| 10   | 8.04 | 8.09 | 8.07 | 8.17 | 8.24 | 8.09  | 10.27 | 7.96 | 7.98 | 7.81 | 7.77 | 7.58 |
| 11   | 8.01 | 7.90 | 7.94 | 8.41 | 8.16 | 10.26 | 9.17  | 7.97 | 7.99 | 7.85 | 7.87 | 7.62 |
| 12   | 8.07 | 7.99 | 8.05 | 8.15 | 8.09 | 9.52  | 8.78  | 7.86 | 7.91 | 7.91 | 7.90 | 7.65 |
| 13   | 8.13 | 8.05 | 8.11 | 8.02 | 8.21 | 9.22  | 9.99  | 7.92 | 7.86 | 7.99 | 7.82 | 7.81 |
| 14   | 8.14 | 7.84 | 8.14 | 7.99 | 8.25 | 8.82  | 12.01 | 7.84 | 7.82 | 7.85 | 7.73 | 7.85 |
| 15   | 7.99 | 7.94 | 8.08 | 8.11 | 8.28 | 8.38  | 10.21 | 7.89 | 7.83 | 7.84 | 7.66 | 7.78 |
| 16   | 7.97 | 7.98 | 8.02 | 7.99 | 8.17 | 8.45  | 10.22 | 7.91 | 7.95 | 7.94 | 7.59 | 7.76 |
| 17   | 7.96 | 7.89 | 8.05 | 8.09 | 8.12 | 8.33  | 9.79  | 7.90 | 8.02 | 7.74 | 7.58 | 7.68 |
| 18   | 8.02 | 7.94 | 7.92 | 8.03 | 8.56 | 8.34  | 8.77  | 7.87 | 7.98 | 7.77 | 7.57 | 7.61 |
| 19   | 7.90 | 7.99 | 7.94 | 8.12 | 8.22 | 9.32  | 8.49  | 7.92 | 8.07 | 7.74 | 7.58 | 7.60 |
| 20   | 7.89 | 8.08 | 7.93 | 7.96 | 8.19 | 11.93 | 8.34  | 7.90 | 7.90 | 7.77 | 7.57 | 7.56 |
| 21   | 7.97 | 7.96 | 7.97 | 8.01 | 8.08 | 9.97  | 8.17  | 7.88 | 8.01 | 7.87 | 7.57 | 7.58 |
| 22   | 8.00 | 8.02 | 8.01 | 8.09 | 8.22 | 9.97  | 8.15  | 7.75 | 7.97 | 7.82 | 7.53 | 7.66 |
| 23   | 8.00 | 8.04 | 7.89 | 8.05 | 8.12 | 9.71  | 8.20  | 7.85 | 7.95 | 7.73 | 7.47 | 7.62 |
| 24   | 8.04 | 7.98 | 7.95 | 7.96 | 8.14 | 8.77  | 8.22  | 7.94 | 7.99 | 7.69 | 7.43 | 7.60 |
| 25   | 8.05 | 7.91 | 7.99 | 8.04 | 8.23 | 8.38  | 7.96  | 7.98 | 7.92 | 7.76 | 7.41 | 7.63 |
| 26   | 8.07 | 7.90 | 7.90 | 8.08 | 8.19 | 8.34  | 8.20  | 7.90 | 7.93 | 7.77 | 7.49 | 7.67 |
| 27   | 8.04 | 8.07 | 7.97 | 7.95 | 8.58 | 8.15  | 8.07  | 7.97 | 7.93 | 7.70 | 7.46 | 7.68 |
| 28   | 8.01 | 7.90 | 7.92 | 8.11 | 8.44 | 8.12  | 8.08  | 7.97 | 7.91 | 7.65 | 7.42 | 7.61 |
| 29   | 8.04 | 7.93 | 7.98 | 8.21 | 8.39 | 8.15  | 8.04  | 7.98 | 7.97 | 7.86 | 7.42 | 7.56 |
| 30   | 8.08 | 7.76 | 8.05 | 8.40 | ---  | 8.08  | 8.02  | 7.89 | 8.02 | 7.93 | 7.54 | 7.53 |
| 31   | 8.07 | ---  | 8.09 | 8.37 | ---  | 8.15  | ---   | 7.91 | ---  | 7.77 | 7.49 | ---  |
| MEAN | 8.03 | 7.96 | 7.99 | 8.13 | 8.21 | 8.70  | 12.48 | 7.93 | 7.94 | 7.82 | 7.64 | 7.58 |
| MAX  | 8.14 | 8.11 | 8.17 | 8.55 | 8.58 | 11.93 | 31.55 | 8.14 | 8.07 | 8.03 | 7.90 | 7.85 |
| MIN  | 7.89 | 7.75 | 7.81 | 7.94 | 8.01 | 8.05  | 7.96  | 7.75 | 7.79 | 7.65 | 7.41 | 7.37 |
| MED  | 8.03 | 7.95 | 7.99 | 8.11 | 8.18 | 8.33  | 8.98  | 7.92 | 7.95 | 7.84 | 7.59 | 7.60 |

02443500 LUXAPALLILA CREEK NEAR COLUMBUS, MS

LOCATION.--Lat 33°30'51", long 88°23'43", in NW1/4 SW1/4 sec.11, T.18 S., R.18 W., Huntsville Meridian, Lowndes County, Hydrologic Unit 03160105, on right bank at Columbus Water Works pumping plant, 175 ft upstream from bridge on county highway (formerly State Highway 50), 0.6 mi upstream from Magby Creek, 1.4 mi upstream from U. S. Highway 82 and 6.2 mi upstream from mouth.

DRAINAGE AREA.--715 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to September 1930, October 1974 to current year. Monthly discharge only for September 1930.

REVISED RECORDS.--WSP 1304: 1929, 1930 (Monthly values only). WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 142.23 ft above sea level. Prior to Nov. 3, 1974, nonrecording gage at same site. September 1928 to September 1930 at undetermined datum, but believed to be same as present datum.

REMARKS.--Estimated daily discharges: Feb. 4-7 and Feb 14 - Mar. 13. Records good except for estimated daily discharges, which are poor. Satellite telemeter and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1892, 35.3 ft, April 1892, from information by U. S. Army Corps of Engineers. The flood of January 1949, reached a stage of 32.8 ft and the flood of December 1961, reached a stage of 31.8 ft, according to information by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 5 | 0130 | *20,400                           | *21.55              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|--------|-------|------|------|------|------|
| 1     | 120  | 125   | 204   | 231   | 1330  | e620  | 1610   | 377   | 120  | 124  | 73   | 40   |
| 2     | 123  | 136   | 188   | 228   | 1150  | e505  | 2940   | 321   | 115  | 122  | 71   | 38   |
| 3     | 117  | 190   | 182   | 233   | 974   | e470  | 7710   | 286   | 108  | 105  | 81   | 39   |
| 4     | 106  | 303   | 182   | 468   | e780  | e490  | 17900  | 265   | 108  | 94   | 89   | 38   |
| 5     | 98   | 286   | 186   | 1010  | e650  | e470  | 19100  | 260   | 122  | 88   | 83   | 38   |
| 6     | 94   | 215   | 191   | 1310  | e525  | e435  | 12200  | 245   | 141  | 81   | 75   | 37   |
| 7     | 90   | 174   | 202   | 852   | e450  | e395  | 4720   | 247   | 168  | 77   | 73   | 38   |
| 8     | 90   | 154   | 216   | 602   | 370   | e370  | 3090   | 236   | 169  | 72   | 66   | 43   |
| 9     | 106  | 140   | 211   | 520   | 325   | e350  | 2600   | 212   | 144  | 68   | 61   | 46   |
| 10    | 129  | 132   | 225   | 631   | 291   | e500  | 2270   | 195   | 128  | 65   | 64   | 50   |
| 11    | 177  | 124   | 236   | 1020  | 263   | e850  | 1730   | 185   | 118  | 62   | 79   | 54   |
| 12    | 243  | 117   | 296   | 978   | 239   | e1720 | 1470   | 176   | 109  | 60   | 69   | 57   |
| 13    | 223  | 114   | 495   | 793   | 219   | e2800 | 1360   | 168   | 103  | 59   | 65   | 61   |
| 14    | 170  | 111   | 622   | 660   | e420  | 2150  | 1570   | 159   | 100  | 59   | 58   | 55   |
| 15    | 140  | 107   | 811   | 533   | e580  | 1910  | 2100   | 150   | 110  | 59   | 51   | 50   |
| 16    | 125  | 106   | 673   | 447   | e560  | 1520  | 1770   | 143   | 135  | 59   | 49   | 48   |
| 17    | 116  | 105   | 498   | 389   | e475  | 1150  | 1540   | 137   | 141  | 56   | 48   | 46   |
| 18    | 111  | 109   | 379   | 370   | e445  | 961   | 1330   | 134   | 160  | 54   | 45   | 43   |
| 19    | 109  | 115   | 331   | 408   | e460  | 1130  | 1070   | 131   | 169  | 52   | 43   | 41   |
| 20    | 108  | 132   | 324   | 460   | e490  | 1600  | 870    | 136   | 178  | 59   | 40   | 39   |
| 21    | 109  | 148   | 365   | 433   | e470  | 2240  | 726    | 140   | 178  | 72   | 39   | 38   |
| 22    | 107  | 175   | 401   | 406   | e381  | 1810  | 633    | 152   | 162  | 66   | 37   | 38   |
| 23    | 106  | 197   | 443   | 394   | e332  | 1470  | 591    | 162   | 148  | 69   | 36   | 39   |
| 24    | 104  | 198   | 442   | 419   | e305  | 1270  | 543    | 154   | 148  | 67   | 36   | 46   |
| 25    | 106  | 229   | 375   | 555   | e270  | 1020  | 516    | 143   | 150  | 63   | 35   | 48   |
| 26    | 103  | 290   | 322   | 550   | e279  | 850   | 521    | 134   | 130  | 61   | 36   | 47   |
| 27    | 105  | 326   | 288   | 463   | e330  | 774   | 471    | 127   | 117  | 59   | 35   | 45   |
| 28    | 109  | 308   | 268   | 447   | e480  | 802   | 417    | 130   | 113  | 64   | 37   | 46   |
| 29    | 110  | 266   | 255   | 658   | e700  | 835   | 379    | 131   | 119  | 62   | 38   | 44   |
| 30    | 110  | 231   | 245   | 1050  | ---   | 950   | 407    | 131   | 121  | 60   | 39   | 44   |
| 31    | 108  | ---   | 237   | 1480  | ---   | 1260  | ---    | 126   | ---  | 65   | 40   | ---  |
| TOTAL | 3772 | 5363  | 10293 | 18998 | 14543 | 33677 | 94154  | 5693  | 4032 | 2183 | 1691 | 1336 |
| MEAN  | 122  | 179   | 332   | 613   | 501   | 1086  | 3138   | 184   | 134  | 70.4 | 54.5 | 44.5 |
| MAX   | 243  | 326   | 811   | 1480  | 1330  | 2800  | 19100  | 377   | 178  | 124  | 89   | 61   |
| MIN   | 90   | 105   | 182   | 228   | 219   | 350   | 379    | 126   | 100  | 52   | 35   | 37   |
| MED   | 109  | 151   | 288   | 520   | 450   | 950   | 1500   | 154   | 129  | 64   | 49   | 44   |
| AC-FT | 7480 | 10640 | 20420 | 37680 | 28850 | 66800 | 186800 | 11290 | 8000 | 4330 | 3350 | 2650 |
| CFSM  | .17  | .25   | .46   | .86   | .70   | 1.52  | 4.39   | .26   | .19  | .10  | .08  | .06  |
| IN.   | .20  | .28   | .54   | .99   | .76   | 1.75  | 4.90   | .30   | .21  | .11  | .09  | .07  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

|      | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 382  | 794  | 1371 | 2032 | 1939 | 2381 | 2132 | 1315 | 580  | 466  | 271  | 270  |
| MAX  | 1675 | 3011 | 5840 | 3857 | 4650 | 6465 | 5671 | 7073 | 2886 | 1855 | 1201 | 1901 |
| (WY) | 1976 | 1930 | 1984 | 1979 | 1990 | 1980 | 1991 | 1991 | 1997 | 1994 | 1975 | 1979 |
| MIN  | 68.3 | 139  | 268  | 463  | 501  | 461  | 308  | 154  | 55.8 | 70.4 | 49.7 | 44.5 |
| (WY) | 1988 | 1988 | 1988 | 1986 | 2000 | 1988 | 1986 | 1988 | 1988 | 2000 | 1988 | 2000 |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1929 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 327530                 | 195735              |                         |
| ANNUAL MEAN              | 897                    | 535                 | 1160                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 2277                    |
| LOWEST ANNUAL MEAN       |                        |                     | 320                     |
| HIGHEST DAILY MEAN       | 17800                  | Jan 25              | 38000                   |
| LOWEST DAILY MEAN        | 72                     | Sep 3               | 25                      |
| ANNUAL SEVEN-DAY MINIMUM | 75                     | Aug 31              | 29                      |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 40400                   |
| INSTANTANEOUS PEAK STAGE |                        | 21.55               | 32.35                   |
| INSTANTANEOUS LOW FLOW   |                        | 35                  | 28                      |
| ANNUAL RUNOFF (AC-FT)    | 649700                 | 388200              | 840600                  |
| ANNUAL RUNOFF (CFSM)     | 1.26                   | .75                 | 1.62                    |
| ANNUAL RUNOFF (INCHES)   | 17.04                  | 10.18               | 22.05                   |
| 10 PERCENT EXCEEDS       | 1760                   | 1060                | 2490                    |
| 50 PERCENT EXCEEDS       | 370                    | 172                 | 563                     |
| 90 PERCENT EXCEEDS       | 95                     | 48                  | 119                     |

e Estimated

a Also occurred on Aug. 25,26,27,28.

02443500 LUXAPALLILA CREEK NEAR COLUMBUS, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to April 2000 (discontinued).

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY)<br>(80155) |
|--------------|------|-----------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| JAN<br>19... | 0900 | 398                                                                   | 21                                                   | 23                                                                       |
| MAR<br>01... | 0930 | 620                                                                   | 25                                                   | 42                                                                       |
| APR<br>11... | 1500 | 1670                                                                  | 28                                                   | 126                                                                      |





## 61

LOCATION.--Lat 32°55'57", long 88°17'52", in NE1/4 sec. 33, T. 23 N., R. 3 W., Sumter County, Hydrologic Unit 03160108, near right bank on downstream side of bridge on State Highway 17, 0.1 mi upstream from Woodward Creek, 2.1 mi upstream from St. Louis-San Francisco Railroad bridge, 5 mi north of Geiger, and at mile 16.9.

DRAINAGE AREA.--1.097 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1939 to September 1940, August 1944 to September 1965, October 1965 to September 1966 (gage heights only), October 1966 to current year. Monthly discharge only for period October to December 1966.

REVISÉD RECORDS.--WDR AL-84-1: Drainage area

WATER - Water stage recorder. Datum of stage is 86.08 ft above sea level. Prior to Sept. 30, 1940, nonrecording gage at site of old highway bridge 1 mi downstream at datum 1.44 ft lower. July 26, 1944 to June 5, 1949, nonrecording gage at site on old river channel 1 mi south at same datum. June 6, 1949 to Sept. 30, 1984, at site on old river channel 1 mi south at same datum.

REMARKS - Estimated daily discharges: June 13 to July 19, July 21-28. Records good except those estimated, which are fair. Discharge includes flow of old river channel at bridge on State Highway 17, 1 mi south of gage. Several observations of specific conductance and water temperature were made during the year and are published under MISCELLANEOUS WATER-QUALITY SITES in this report.

| DAY   | OCT  | NOV  | DEC  | JAN   | FEB  | MAR   | APR    | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|-------|------|-------|--------|------|------|------|------|------|
| 1     | 82   | 76   | 83   | 108   | 631  | 201   | 723    | 227  | 101  | e107 | 82   | 45   |
| 2     | 108  | 77   | 82   | 106   | 461  | 172   | 1890   | 208  | 95   | e113 | 77   | 43   |
| 3     | 108  | 75   | 81   | 109   | 397  | 170   | 9300   | 199  | 91   | e110 | 77   | 42   |
| 4     | 116  | 75   | 80   | 749   | 340  | 169   | 13100  | 204  | 93   | e105 | 76   | 41   |
| 5     | 99   | 77   | 80   | 1430  | 280  | 163   | 12800  | 232  | 97   | e107 | 72   | 41   |
| 6     | 95   | 73   | 79   | 614   | 231  | 154   | 12800  | 209  | 96   | e88  | 70   | 41   |
| 7     | 92   | 70   | 78   | 305   | 193  | 148   | 13000  | 183  | 96   | e78  | 69   | 42   |
| 8     | 85   | 72   | 78   | 231   | 168  | 140   | 12500  | 171  | 98   | e72  | 69   | 42   |
| 9     | 89   | 73   | 79   | 218   | 152  | 136   | 11700  | 159  | 99   | e70  | 68   | 42   |
| 10    | 128  | 74   | 80   | 436   | 140  | 143   | 10500  | 148  | 96   | e71  | 66   | 44   |
| 11    | 380  | 74   | 80   | 747   | 131  | 663   | 8750   | 141  | 92   | e77  | 69   | 50   |
| 12    | 268  | 73   | 81   | 487   | 125  | 1080  | 6240   | 136  | 91   | e84  | 81   | 55   |
| 13    | 173  | 72   | 341  | 294   | 123  | 643   | 3820   | 133  | e87  | e76  | 87   | 53   |
| 14    | 128  | 80   | 708  | 232   | 133  | 424   | 3080   | 125  | e80  | e73  | 71   | 51   |
| 15    | 109  | 74   | 411  | 220   | 182  | 331   | 3350   | 116  | e81  | e71  | 70   | 51   |
| 16    | 103  | 71   | 242  | 201   | 216  | 295   | 2330   | 109  | e90  | e81  | 64   | 55   |
| 17    | 97   | 71   | 178  | 172   | 188  | 265   | 1650   | 104  | e93  | e78  | 56   | 58   |
| 18    | 87   | 71   | 154  | 158   | 155  | 237   | 1390   | 102  | e135 | e72  | 52   | 54   |
| 19    | 80   | 70   | 152  | 153   | 146  | 365   | 1080   | 98   | e255 | 68   | 54   | 49   |
| 20    | 76   | 71   | 146  | 148   | 158  | 1310  | 804    | 95   | e440 | 69   | 52   | 47   |
| 21    | 74   | 74   | 149  | 169   | 173  | 1470  | 625    | 94   | e245 | e125 | 47   | 47   |
| 22    | 73   | 76   | 230  | 171   | 168  | 903   | 510    | 95   | e165 | e110 | 44   | 47   |
| 23    | 72   | 83   | 349  | 153   | 148  | 675   | 435    | 120  | e145 | e103 | 43   | 48   |
| 24    | 72   | 90   | 232  | 157   | 140  | 623   | 381    | 142  | e135 | e98  | 53   | 47   |
| 25    | 70   | 88   | 168  | 170   | 130  | 475   | 341    | 140  | e115 | e90  | 52   | 48   |
| 26    | 70   | 89   | 145  | 163   | 124  | 370   | 316    | 140  | e105 | e78  | 47   | 49   |
| 27    | 69   | 94   | 134  | 148   | 137  | 315   | 289    | 135  | e100 | e70  | 45   | 51   |
| 28    | 70   | 97   | 129  | 150   | 266  | 287   | 263    | 120  | e125 | e72  | 44   | 50   |
| 29    | 72   | 94   | 123  | 586   | 247  | 297   | 246    | 111  | e150 | 82   | 43   | 49   |
| 30    | 71   | 86   | 117  | 1420  | ---  | 509   | 238    | 107  | e125 | 85   | 43   | 49   |
| 31    | 70   | ---  | 112  | 1010  | ---  | 974   | ---    | 107  | ---  | 89   | 44   | ---  |
| TOTAL | 3286 | 2340 | 5181 | 11415 | 6083 | 14107 | 134451 | 4410 | 3816 | 2672 | 1887 | 1431 |
| MEAN  | 106  | 78.0 | 167  | 368   | 210  | 455   | 4482   | 142  | 127  | 86.2 | 60.9 | 47.7 |
| MAX   | 380  | 97   | 708  | 1430  | 631  | 1470  | 13100  | 232  | 440  | 125  | 87   | 58   |
| MIN   | 69   | 70   | 78   | 106   | 123  | 136   | 238    | 94   | 80   | 68   | 43   | 41   |
| CFSM  | .10  | .07  | .15  | .34   | .19  | .41   | 4.09   | .13  | .12  | .08  | .06  | .04  |
| IN.   | .11  | .08  | .18  | .39   | .21  | .48   | 4.56   | .15  | .13  | .09  | .06  | .04  |

|      |      |      |      |      |      |      |       |       |      |      |      |      |
|------|------|------|------|------|------|------|-------|-------|------|------|------|------|
| MEAN | 261  | 603  | 1641 | 2983 | 3483 | 3392 | 3174  | 1414  | 589  | 634  | 311  | 290  |
| MAX  | 2515 | 2958 | 9407 | 9782 | 9415 | 9230 | 17520 | 10340 | 2794 | 7432 | 2064 | 3067 |
| (WY) | 1976 | 1958 | 1962 | 1949 | 1983 | 1980 | 1979  | 1991  | 1997 | 1940 | 1946 | 1950 |
| MIN  | 31.0 | 49.5 | 105  | 91.1 | 210  | 455  | 180   | 107   | 61.3 | 62.8 | 34.1 | 27.5 |
| (WY) | 1955 | 1955 | 1963 | 1956 | 2000 | 2000 | 1963  | 1965  | 1988 | 1952 | 1954 | 1954 |

| SUMMARY STATISTICS       |        | FOR 1999 CALENDAR YEAR |  | FOR 2000 WATER YEAR |         | WATER YEARS 1939 - 2000 |             |
|--------------------------|--------|------------------------|--|---------------------|---------|-------------------------|-------------|
| ANNUAL TOTAL             | 389830 |                        |  | 191079              |         |                         |             |
| ANNUAL MEAN              | 1068   |                        |  | 522                 |         | 1553                    |             |
| HIGHEST ANNUAL MEAN      |        |                        |  |                     |         | 3967                    | 1983        |
| LOWEST ANNUAL MEAN       |        |                        |  |                     |         | 327                     | 1963        |
| HIGHEST DAILY MEAN       | 18500  | Feb 3                  |  | 13100               | Apr 4   | 136000                  | Apr 14 1979 |
| LOWEST DAILY MEAN        | 65     | Sep 26                 |  | 41                  | Sep 4-6 | 22                      | Sep 24 1954 |
| ANNUAL SEVEN-DAY MINIMUM | 66     | Sep 21                 |  | 42                  | Sep 3   | 23                      | Sep 23 1954 |
| INSTANTANEOUS PEAK FLOW  |        |                        |  | 13200               | Apr 4   | 156000                  | Apr 14 1979 |
| INSTANTANEOUS PEAK STAGE |        |                        |  | 35.75               | Apr 4   | 48.58                   | Apr 14 1979 |
| ANNUAL RUNOFF (CFSM)     | .97    |                        |  | .48                 |         | 1.42                    |             |
| ANNUAL RUNOFF (INCHES)   | 13.22  |                        |  | 6.48                |         | 19.24                   |             |
| 10 PERCENT EXCEEDS       | 2540   |                        |  | 624                 |         | 4860                    |             |
| 50 PERCENT EXCEEDS       | 173    |                        |  | 108                 |         | 348                     |             |
| 90 PERCENT EXCEEDS       | 74     |                        |  | 52                  |         | 76                      |             |
| e Estimated              |        |                        |  |                     |         |                         |             |

## 02467200 SUCARNOOCHEE RIVER NEAR PORTERVILLE, MS

LOCATION.--Lat 32° 41'53", Long 88° 29'06", in NE 1/4 SE 1/4 sec. 19, T.20 N., R.18E., Choctaw Meridian, Kemper County, Hydrologic Unit 03160202, on right downstream end of the northbound bridge on U.S. Highway 45, 4.9 miles south of Electric Mills, MS.

DRAINAGE AREA.--135 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1942-77, 1986-88. April, 1996 to current water year.

GAGE.--Water stage recorder. Datum of gage is 175.00 ft above sea level (Mississippi Department of Transportation datum).

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of April 13, 1979, reached a stage of approximately 22.10 ft, discharge, 27,800 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1     | 55   | 43   | 47   | 60   | 100  | 90   | 107   | 64   | 30   | 40   | 25   | 18   |
| 2     | 40   | 55   | 47   | 60   | 91   | 84   | 128   | 62   | 30   | 32   | 31   | 19   |
| 3     | 38   | 50   | 48   | 62   | 83   | 80   | 1100  | 61   | 29   | 29   | 38   | 18   |
| 4     | 37   | 44   | 48   | 152  | 81   | 76   | 2330  | 65   | 31   | 27   | 46   | 18   |
| 5     | 37   | 43   | 49   | 189  | 77   | 75   | 2140  | 61   | 36   | 25   | 35   | 17   |
| 6     | 35   | 43   | 52   | 110  | 74   | 71   | 622   | 59   | 37   | 25   | 38   | 17   |
| 7     | 34   | 44   | 48   | 90   | 70   | 70   | 318   | 59   | 39   | 24   | 33   | 17   |
| 8     | 36   | 44   | 45   | 81   | 72   | 67   | 249   | 53   | 34   | 24   | 27   | 19   |
| 9     | 46   | 44   | 46   | 81   | 72   | 65   | 235   | 51   | 31   | 24   | 25   | 25   |
| 10    | 166  | 45   | 49   | 102  | 67   | 66   | 185   | 49   | 30   | 28   | 24   | 26   |
| 11    | 170  | 45   | 68   | 101  | 72   | 136  | 159   | 49   | 30   | 37   | 30   | 24   |
| 12    | 76   | 44   | 58   | 85   | 71   | 244  | 151   | 48   | 26   | 30   | 57   | 23   |
| 13    | 56   | 44   | 154  | 81   | 71   | 149  | 400   | 48   | 27   | 26   | 37   | 25   |
| 14    | 51   | 45   | 227  | 112  | 75   | 116  | 341   | 42   | 26   | 25   | 29   | 31   |
| 15    | 48   | 44   | 108  | 103  | 103  | 104  | 257   | 41   | 26   | 26   | 26   | 27   |
| 16    | 45   | 44   | 80   | 88   | 83   | 97   | 202   | 40   | 34   | 24   | 25   | 22   |
| 17    | 44   | 44   | 71   | 82   | 78   | 98   | 169   | 39   | 41   | 23   | 23   | 21   |
| 18    | 43   | 44   | 67   | 78   | 73   | 89   | 145   | 39   | 41   | 22   | 23   | 19   |
| 19    | 42   | 45   | 70   | 76   | 100  | 123  | 127   | 38   | 43   | 22   | 22   | 18   |
| 20    | 42   | 46   | 87   | 83   | 140  | 255  | 115   | 37   | 40   | 23   | 22   | 19   |
| 21    | 42   | 51   | 77   | 83   | 102  | 184  | 107   | 38   | 40   | 23   | 21   | 20   |
| 22    | 40   | 57   | 95   | 74   | 87   | 138  | 100   | 40   | 34   | 24   | 20   | 19   |
| 23    | 40   | 51   | 85   | 71   | 81   | 117  | 93    | 39   | 30   | 23   | 20   | 21   |
| 24    | 39   | 50   | 72   | 73   | 77   | 105  | 90    | 36   | 28   | 22   | 20   | 23   |
| 25    | 38   | 57   | 67   | 70   | 76   | 98   | 93    | 35   | 27   | 21   | 20   | 20   |
| 26    | 40   | 64   | 64   | 66   | 74   | 94   | 85    | 34   | 29   | 21   | 20   | 18   |
| 27    | 41   | 58   | 62   | 67   | 86   | 106  | 79    | 34   | 39   | 21   | 19   | 19   |
| 28    | 40   | 52   | 62   | 71   | 142  | 134  | 76    | 34   | 52   | 24   | 20   | 19   |
| 29    | 40   | 49   | 61   | 116  | 106  | 110  | 73    | 32   | 39   | 28   | 19   | 19   |
| 30    | 40   | 48   | 60   | 139  | ---  | 99   | 69    | 32   | 45   | 26   | 19   | 17   |
| 31    | 39   | ---  | 59   | 114  | ---  | 135  | ---   | 31   | ---  | 24   | 18   | ---  |
| TOTAL | 1580 | 1437 | 2233 | 2820 | 2484 | 3475 | 10345 | 1390 | 1024 | 793  | 832  | 618  |
| MEAN  | 51.0 | 47.9 | 72.0 | 91.0 | 85.7 | 112  | 345   | 44.8 | 34.1 | 25.6 | 26.8 | 20.6 |
| MAX   | 170  | 64   | 227  | 189  | 142  | 255  | 2330  | 65   | 52   | 40   | 57   | 31   |
| MIN   | 34   | 43   | 45   | 60   | 67   | 65   | 69    | 31   | 26   | 21   | 18   | 17   |
| CFSM  | .38  | .35  | .53  | .67  | .63  | .83  | 2.55  | .33  | .25  | .19  | .20  | .15  |
| IN.   | .44  | .40  | .62  | .78  | .68  | .96  | 2.85  | .38  | .28  | .22  | .23  | .17  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

|      | MEAN | 56.1 | 90.0 | 172  | 427  | 352  | 249  | 287  | 92.5 | 112  | 77.4 | 62.0 | 47.1 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 69.5 | 153  | 306  | 823  | 595  | 315  | 362  | 165  | 325  | 151  | 87.0 | 74.4 |      |
| (WY) | 1997 | 1998 | 1998 | 1998 | 1997 | 1998 | 1997 | 1997 | 1997 | 1997 | 1996 | 1996 |      |
| MIN  | 42.1 | 47.9 | 72.0 | 91.0 | 85.7 | 112  | 129  | 44.8 | 34.1 | 25.6 | 26.8 | 20.6 |      |
| (WY) | 1999 | 2000 | 2000 | 2000 | 2000 | 2000 | 1999 | 2000 | 2000 | 2000 | 2000 | 2000 |      |

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1996 - 2000

| ANNUAL TOTAL             | 50601 | 29031  |       |
|--------------------------|-------|--------|-------|
| ANNUAL MEAN              | 139   | 79.3   | 167   |
| HIGHEST ANNUAL MEAN      |       |        | 227   |
| LOWEST ANNUAL MEAN       |       |        | 79.3  |
| HIGHEST DAILY MEAN       | 5290  | Jan 31 | 5710  |
| LOWEST DAILY MEAN        | 28    | Aug 24 | 17    |
| ANNUAL SEVEN-DAY MINIMUM | 30    | Aug 19 | 18    |
| INSTANTANEOUS PEAK FLOW  |       |        | 7170  |
| INSTANTANEOUS PEAK STAGE |       |        | 19.93 |
| INSTANTANEOUS LOW FLOW   |       |        | 16    |
| ANNUAL RUNOFF (CFSM)     | 1.03  | .59    | 1.24  |
| ANNUAL RUNOFF (INCHES)   | 13.94 | 8.00   | 16.84 |
| 10 PERCENT EXCEEDS       | 228   | 119    | 302   |
| 50 PERCENT EXCEEDS       | 55    | 47     | 81    |
| 90 PERCENT EXCEEDS       | 34    | 22     | 37    |

|                          |        |        |        |       |       |       |             |
|--------------------------|--------|--------|--------|-------|-------|-------|-------------|
| ANNUAL TOTAL             | 202167 |        | 104230 |       |       |       |             |
| ANNUAL MEAN              | 554    |        | 285    |       |       | 1096  |             |
| HIGHEST ANNUAL MEAN      |        |        |        |       |       | 2291  | 1980        |
| LOWEST ANNUAL MEAN       |        |        |        |       |       | 285   | 2000        |
| HIGHEST DAILY MEAN       | 14400  | Feb 2  | 6250   | Apr 5 | 51000 |       | Apr 14 1974 |
| LOWEST DAILY MEAN        | 68     | Sep 20 | 39     | Sep 6 | 39    |       | Sep 6 2000  |
| ANNUAL SEVEN-DAY MINIMUM | 72     | Sep 19 | 41     | Sep 1 | 41    |       | Sep 1 2000  |
| INSTANTANEOUS PEAK FLOW  |        |        | 7190   | Apr 6 | 54200 |       | Apr 14 1974 |
| INSTANTANEOUS PEAK STAGE |        |        | 15.59  | Apr 6 | 32.60 |       | Apr 14 1974 |
| INSTANTANEOUS LOW FLOW   |        |        | 38     | Sep 6 | 38    |       | Sep 6 2000  |
| ANNUAL RUNOFF (CFSM)     | .75    |        | .38    |       |       | 1.48  |             |
| ANNUAL RUNOFF (INCHES)   | 10.12  |        | 5.22   |       |       | 20.05 |             |
| 10 PERCENT EXCEEDS       | 926    |        | 517    |       | 2730  |       |             |
| 50 PERCENT EXCEEDS       | 153    |        | 122    |       | 363   |       |             |
| 90 PERCENT EXCEEDS       | 87     |        | 52     |       | 115   |       |             |

## PASCAGOULA RIVER BASIN

02472500 BOUIE CREEK NEAR HATTIESBURG, MS

LOCATION.--Lat 31°25'33", long 89°24'53", in NW1/4 NW1/4 SW1/4 sec.4, T.5 N., R.14 W., St. Stephens Meridian, Forrest County, Hydrologic Unit 03170004, on left bank 25 ft downstream from upstream bridge of dual bridges on U.S. Highway 49, 1.0 mi upstream from Okatoma Creek, 2.2 mi southwest of Lux, 10.2 mi northwest of Hattiesburg, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--304 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1938 to current year. Prior to October 1989, published as Bowie Creek near Hattiesburg.

REVISED RECORDS.--WSP 1906: 1943(M).

GAGE.--Water-stage recorder. Datum of gage is 160.04 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to Dec. 8, 1938, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 4 | 0130 | *1,840                            | *8.26               |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1     | 162  | 167  | 130  | 141  | 166  | 165  | 197   | 134  | 109  | 112  | 92   | 87   |
| 2     | 146  | 191  | 130  | 141  | 159  | 151  | 182   | 132  | 109  | 110  | 98   | 87   |
| 3     | 127  | 173  | 130  | 159  | 154  | 153  | 669   | 131  | 109  | 108  | 123  | 88   |
| 4     | 123  | 141  | 130  | 474  | 152  | 193  | 1540  | 130  | 108  | 106  | 111  | 88   |
| 5     | 122  | 134  | 131  | 344  | 149  | 161  | 1180  | 143  | 108  | 104  | 110  | 87   |
| 6     | 120  | 132  | 132  | 510  | 146  | 147  | 835   | 141  | 109  | 102  | 103  | 87   |
| 7     | 120  | 130  | 132  | 333  | 145  | 142  | 377   | 137  | 111  | 101  | 97   | 87   |
| 8     | 122  | 130  | 133  | 196  | 145  | 140  | 252   | 133  | 110  | 100  | 94   | 88   |
| 9     | 211  | 129  | 132  | 369  | 145  | 139  | 205   | 129  | 109  | 98   | 93   | 92   |
| 10    | 1050 | 128  | 132  | 905  | 145  | 141  | 182   | 126  | 107  | 97   | 93   | 97   |
| 11    | 905  | 128  | 136  | 605  | 146  | 269  | 170   | 125  | 106  | 95   | 97   | 99   |
| 12    | 343  | 127  | 141  | 310  | 147  | 358  | 165   | 123  | 105  | 95   | 94   | 121  |
| 13    | 198  | 127  | 160  | 234  | 147  | 285  | 747   | 122  | 104  | 94   | 93   | 191  |
| 14    | 157  | 127  | 184  | 199  | 149  | 203  | 802   | 119  | 104  | 92   | 91   | 131  |
| 15    | 143  | 127  | 215  | 178  | 147  | 177  | 670   | 118  | 104  | 90   | 90   | 123  |
| 16    | 136  | 127  | 161  | 168  | 145  | 198  | 365   | 116  | 104  | 88   | 88   | 116  |
| 17    | 132  | 126  | 145  | 162  | 143  | 217  | 240   | 117  | 112  | 88   | 87   | 109  |
| 18    | 128  | 125  | 150  | 158  | 141  | 326  | 196   | 116  | 119  | 90   | 87   | 107  |
| 19    | 126  | 125  | 202  | 156  | 140  | 765  | 174   | 116  | 125  | 92   | 86   | 105  |
| 20    | 124  | 127  | 209  | 153  | 138  | 767  | 161   | 117  | 122  | 102  | 85   | 104  |
| 21    | 123  | 127  | 258  | 150  | 136  | 438  | 152   | 130  | 116  | 98   | 85   | 106  |
| 22    | 123  | 130  | 269  | 148  | 134  | 279  | 145   | 167  | 112  | 93   | 85   | 110  |
| 23    | 123  | 131  | 239  | 195  | 133  | 218  | 142   | 129  | 112  | 92   | 85   | 106  |
| 24    | 123  | 131  | 191  | 248  | 132  | 192  | 148   | 121  | 109  | 91   | 85   | 104  |
| 25    | 121  | 132  | 161  | 202  | 132  | 177  | 183   | 117  | 109  | 90   | 84   | 104  |
| 26    | 122  | 134  | 152  | 173  | 133  | 390  | 183   | 115  | 109  | 89   | 85   | 104  |
| 27    | 122  | 134  | 147  | 161  | 254  | 450  | 152   | 114  | 108  | 88   | 86   | 103  |
| 28    | 121  | 135  | 144  | 162  | 233  | 438  | 143   | 112  | 182  | 91   | 86   | 102  |
| 29    | 121  | 132  | 143  | 182  | 204  | 336  | 139   | 111  | 122  | 90   | 86   | 101  |
| 30    | 121  | 131  | 141  | 195  | ---  | 270  | 136   | 110  | 116  | 105  | 85   | 99   |
| 31    | 129  | ---  | 141  | 179  | ---  | 229  | ---   | 109  | ---  | 98   | 85   | ---  |
| TOTAL | 6044 | 4038 | 5001 | 7890 | 4440 | 8514 | 10832 | 3860 | 3389 | 2989 | 2849 | 3133 |
| MEAN  | 195  | 135  | 161  | 255  | 153  | 275  | 361   | 125  | 113  | 96.4 | 91.9 | 104  |
| MAX   | 1050 | 191  | 269  | 905  | 254  | 767  | 1540  | 167  | 182  | 112  | 123  | 191  |
| MIN   | 120  | 125  | 130  | 141  | 132  | 139  | 136   | 109  | 104  | 88   | 84   | 87   |
| CFSM  | .64  | .44  | .53  | .84  | .50  | .90  | 1.19  | .41  | .37  | .32  | .30  | .34  |
| IN.   | .74  | .49  | .61  | .97  | .54  | 1.04 | 1.33  | .47  | .41  | .37  | .35  | .38  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

|      | MEAN | 206  | 303  | 494  | 656  | 780  | 810  | 716  | 474  | 265  | 260  | 228  | 224 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 841  | 1343 | 1708 | 1867 | 3294 | 2216 | 3084 | 2219 | 734  | 1553 | 660  | 1082 |     |
| (WY) | 1986 | 1949 | 1962 | 1947 | 1961 | 1980 | 1974 | 1990 | 1997 | 1940 | 1949 | 1958 |     |
| MIN  | 102  | 108  | 161  | 139  | 153  | 203  | 162  | 125  | 113  | 96.4 | 91.9 | 99.1 |     |
| (WY) | 1957 | 1957 | 2000 | 1957 | 2000 | 1955 | 1963 | 2000 | 2000 | 2000 | 2000 | 1954 |     |

SUMMARY STATISTICS

|                          | FOR 1999 CALENDAR YEAR |        | FOR 2000 WATER YEAR |         | WATER YEARS 1938 - 2000 |             |
|--------------------------|------------------------|--------|---------------------|---------|-------------------------|-------------|
| ANNUAL TOTAL             | 106885                 |        | 62979               |         | 450                     |             |
| ANNUAL MEAN              | 293                    |        | 172                 |         | 868                     | 1949        |
| HIGHEST ANNUAL MEAN      |                        |        |                     |         | 172                     | 2000        |
| LOWEST ANNUAL MEAN       |                        |        |                     |         |                         |             |
| HIGHEST DAILY MEAN       | 6580                   | Mar 14 | 1540                | Apr 4   | 33500                   | Apr 14 1974 |
| LOWEST DAILY MEAN        | 107                    | Sep 16 | 84                  | Aug 25  | 83                      | Aug 29 1957 |
| ANNUAL SEVEN-DAY MINIMUM | 108                    | Sep 15 | 85                  | Aug 20  | 84                      | Aug 24 1957 |
| INSTANTANEOUS PEAK FLOW  |                        |        | 1840                | Apr 4   | 45500                   | Apr 14 1974 |
| INSTANTANEOUS PEAK STAGE |                        |        | 8.26                | Apr 4   | 28.18                   | Apr 14 1974 |
| INSTANTANEOUS LOW FLOW   |                        |        | 84                  | Aug 21a | 83                      | Aug 29 1957 |
| ANNUAL RUNOFF (CFSM)     | .96                    |        | .57                 |         | 1.48                    |             |
| ANNUAL RUNOFF (INCHES)   | 13.08                  |        | 7.71                |         | 20.10                   |             |
| 10 PERCENT EXCEEDS       | 353                    |        | 253                 |         | 863                     |             |
| 50 PERCENT EXCEEDS       | 149                    |        | 131                 |         | 229                     |             |
| 90 PERCENT EXCEEDS       | 117                    |        | 92                  |         | 132                     |             |

a Also occurred on Aug. 22, 24, 25, 26, 30, 31.



## 02472850 OKATOMA CREEK AT SANFORD, MS

LOCATION.--Lat 31°29'21", long 88°26'01", SW1/4 NE1/4 NE1/4 sec.18, T.6 N., R.14 W., St. Stephens Meridian, Covington County, Hydrologic Unit 03170004, near left bank on downstream side of bridge on State Highway 598, 0.3 mi west of Sanford, and 2.6 mi east from intersection of State Highway 598 and U.S. Highway 49, and 6.1 mi upstream from mouth.

DRAINAGE AREA.--257 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1994 to current year, occasional discharge measurements, water years 1965-1969, 1989.

GAGE.--Water-stage recorder. Datum of gage is 183.33 ft above sea level (Mississippi Department of Transportation bench mark).

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3000 cfs and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> ) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> ) | Gage Height<br>(ft) |
|---------|------|---------------------------------|---------------------|--------------------------------------------|------|---------------------------------|---------------------|
| Oct. 10 | 1000 | *3,360                          | *13.06              | No other peak greater than base discharge. |      |                                 |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1     | 313  | 240  | 112  | 132  | 160  | 181  | 229   | 118  | 80   | 89   | 71   | 62   |
| 2     | 168  | 200  | 111  | 135  | 151  | 162  | 232   | 116  | 77   | 79   | 77   | 58   |
| 3     | 119  | 160  | 111  | 162  | 147  | 160  | 1540  | 116  | 73   | 73   | 131  | 58   |
| 4     | 107  | 129  | 114  | 640  | 143  | 156  | 1940  | 116  | 72   | 70   | 116  | 58   |
| 5     | 99   | 118  | 117  | 957  | 140  | 147  | 1780  | 149  | 74   | 69   | 95   | 56   |
| 6     | 94   | 115  | 118  | 1040 | 136  | 145  | 1560  | 138  | 78   | 67   | 73   | 55   |
| 7     | 92   | 112  | 121  | 545  | 134  | 142  | 872   | 128  | 82   | 66   | 67   | 56   |
| 8     | 97   | 111  | 120  | 243  | 135  | 143  | 347   | 121  | 80   | 65   | 65   | 60   |
| 9     | 535  | 110  | 119  | 418  | 134  | 144  | 261   | 113  | 76   | 63   | 67   | 67   |
| 10    | 2580 | 110  | 121  | 989  | 134  | 147  | 230   | 109  | 74   | 63   | 64   | 70   |
| 11    | 1040 | 111  | 133  | 469  | 134  | 305  | 205   | 106  | 73   | 62   | 63   | 71   |
| 12    | 447  | 112  | 132  | 292  | 135  | 443  | 197   | 104  | 72   | 60   | 62   | 95   |
| 13    | 219  | 110  | 174  | 224  | 135  | 298  | 1180  | 102  | 71   | 59   | 58   | 219  |
| 14    | 171  | 110  | 325  | 195  | 137  | 213  | 1220  | 98   | 72   | 57   | 59   | 93   |
| 15    | 148  | 109  | 372  | 177  | 134  | 189  | 1160  | 95   | 73   | 54   | 59   | 81   |
| 16    | 135  | 107  | 228  | 166  | 132  | 207  | 666   | 93   | 76   | 53   | 57   | 76   |
| 17    | 128  | 107  | 162  | 162  | 132  | 212  | 294   | 92   | 90   | 52   | 56   | 69   |
| 18    | 121  | 106  | 155  | 159  | 137  | 301  | 226   | 91   | 106  | 54   | 55   | 66   |
| 19    | 115  | 107  | 188  | 157  | 134  | 868  | 194   | 91   | 127  | 55   | 55   | 64   |
| 20    | 111  | 109  | 195  | 154  | 130  | 1030 | 175   | 90   | 185  | 81   | 55   | 64   |
| 21    | 108  | 113  | 277  | 149  | 129  | 648  | 160   | 153  | 124  | 80   | 55   | 65   |
| 22    | 106  | 116  | 277  | 149  | 128  | 388  | 147   | 111  | 106  | 60   | 55   | 83   |
| 23    | 104  | 117  | 219  | 181  | 127  | 290  | 139   | 104  | 96   | 57   | 56   | 72   |
| 24    | 102  | 116  | 172  | 198  | 128  | 249  | 257   | 95   | 86   | 55   | 59   | 85   |
| 25    | 100  | 118  | 151  | 179  | 129  | 226  | 220   | 90   | 80   | 53   | 56   | 73   |
| 26    | 100  | 122  | 143  | 161  | 131  | 319  | 177   | 87   | 87   | 53   | 56   | 68   |
| 27    | 101  | 121  | 137  | 149  | 260  | 516  | 147   | 85   | 83   | 55   | 58   | 66   |
| 28    | 102  | 120  | 134  | 158  | 319  | 549  | 139   | 83   | 90   | 56   | 62   | 65   |
| 29    | 102  | 116  | 130  | 189  | 241  | 420  | 131   | 82   | 81   | 56   | 60   | 64   |
| 30    | 103  | 114  | 129  | 202  | ---  | 322  | 124   | 82   | 88   | 61   | 57   | 63   |
| 31    | 124  | ---  | 129  | 177  | ---  | 266  | ---   | 81   | ---  | 61   | 59   | ---  |
| TOTAL | 7991 | 3666 | 5126 | 9308 | 4346 | 9786 | 16149 | 3239 | 2632 | 1938 | 2038 | 2202 |
| MEAN  | 258  | 122  | 165  | 300  | 150  | 316  | 538   | 104  | 87.7 | 62.5 | 65.7 | 73.4 |
| MAX   | 2580 | 240  | 372  | 1040 | 319  | 1030 | 1940  | 153  | 185  | 89   | 131  | 219  |
| MIN   | 92   | 106  | 111  | 132  | 127  | 142  | 124   | 81   | 71   | 52   | 55   | 55   |
| CFSM  | 1.00 | .48  | .64  | 1.17 | .58  | 1.23 | 2.09  | .41  | .34  | .24  | .26  | .29  |
| IN.   | 1.16 | .53  | .74  | 1.35 | .63  | 1.42 | 2.34  | .47  | .38  | .28  | .29  | .32  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

|      | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 195  | 204  | 341  | 601  | 506  | 739  | 673  | 275  | 224  | 153  | 121  | 115  |
| MAX  | 258  | 276  | 598  | 1520 | 830  | 1136 | 1384 | 718  | 545  | 282  | 186  | 154  |
| (WY) | 2000 | 1996 | 1998 | 1998 | 1998 | 1998 | 1997 | 1997 | 1997 | 1997 | 1997 | 1998 |
| MIN  | 127  | 122  | 165  | 300  | 150  | 316  | 209  | 104  | 87.7 | 62.5 | 65.7 | 73.4 |
| (WY) | 1999 | 2000 | 2000 | 2000 | 2000 | 2000 | 1999 | 2000 | 2000 | 2000 | 2000 | 2000 |

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1995 - 2000

|                          | 1999 CALENDAR YEAR | 2000 WATER YEAR | WATER YEARS 1995 - 2000 |
|--------------------------|--------------------|-----------------|-------------------------|
| ANNUAL TOTAL             | 98943              | 68421           |                         |
| ANNUAL MEAN              | 271                | 187             | 345                     |
| HIGHEST ANNUAL MEAN      |                    |                 | 484                     |
| LOWEST ANNUAL MEAN       |                    |                 | 187                     |
| HIGHEST DAILY MEAN       | 4680               | Mar 9           | 6910                    |
| LOWEST DAILY MEAN        | 75                 | Sep 25          | 52                      |
| ANNUAL SEVEN-DAY MINIMUM | 77                 | Sep 21          | 55                      |
| INSTANTANEOUS PEAK FLOW  |                    |                 | 3360                    |
| INSTANTANEOUS PEAK STAGE |                    |                 | 13.06                   |
| INSTANTANEOUS LOW FLOW   |                    |                 | 50                      |
| ANNUAL RUNOFF (CFSM)     | 1.05               | .73             | 1.34                    |
| ANNUAL RUNOFF (INCHES)   | 14.32              | 9.90            | 18.24                   |
| 10 PERCENT EXCEEDS       | 417                | 302             | 747                     |
| 50 PERCENT EXCEEDS       | 137                | 116             | 175                     |
| 90 PERCENT EXCEEDS       | 88                 | 59              | 93                      |

## PASCAGOULA RIVER BASIN

02473000 LEAF RIVER AT HATTIESBURG, MS

LOCATION.--Lat 31°20'35", long 89°16'39", in SW1/4 NW1/4 sec.2, T.4 N., R.13 W., St. Stephens Meridian, Forrest County, Hydrologic Unit 03170005, on right downstream abutment of bridge on U.S. Highway 11, at eastern city limits of Hattiesburg, 150 ft downstream from Bouie Creek, 3,200 ft upstream from New Orleans and Northeastern Railroad bridge, and at mile 71.8.

DRAINAGE AREA. -- 1,748 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1938 to current year. Daily mean gage heights, published since January 1972. Gage-height records collected in the same vicinity since 1904 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 118.23 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to Jan. 15, 1939, nonrecording gage at same site and datum. Jan. 15, 1939 to Apr. 14, 1981, recording gage in concrete house on left bank 450 ft downstream from U.S. Highway 11.

REMARKS.--Estimated daily discharges: Feb. 26-27. Records good except for estimated daily discharges, which are poor. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1900 reached a stage of about 33.6 ft from reports of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 4 | 2315 | *10.400                           | *11.34              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1     | 925   | 709   | 458   | 579   | 792   | 946   | 1180  | 686   | 407   | 450   | 374   | 268  |
| 2     | 834   | 764   | 453   | 579   | 759   | 836   | 1040  | 665   | 406   | 446   | 381   | 268  |
| 3     | 628   | 758   | 456   | 602   | 735   | 743   | 2470  | 653   | 396   | 403   | 498   | 264  |
| 4     | 534   | 648   | 460   | 1880  | 699   | 764   | 9410  | 643   | 388   | 377   | 540   | 267  |
| 5     | 495   | 563   | 466   | 3510  | 667   | 705   | 10100 | 638   | 386   | 358   | 535   | 256  |
| 6     | 459   | 527   | 459   | 3760  | 643   | 636   | 9560  | 689   | 402   | 346   | 467   | 247  |
| 7     | 447   | 512   | 465   | 3330  | 623   | 601   | 8080  | 684   | 412   | 336   | 399   | 248  |
| 8     | 462   | 501   | 471   | 2050  | 616   | 578   | 4040  | 664   | 421   | 331   | 371   | 275  |
| 9     | 1340  | 491   | 471   | 1370  | 613   | 566   | 2230  | 637   | 415   | 329   | 351   | 313  |
| 10    | 3680  | 487   | 471   | 3450  | 603   | 560   | 1620  | 610   | 400   | 320   | 415   | 356  |
| 11    | 5910  | 482   | 484   | 3100  | 598   | 720   | 1330  | 585   | 384   | 311   | 500   | 319  |
| 12    | 3100  | 474   | 547   | 1860  | 594   | 1250  | 1160  | 568   | 373   | 305   | 417   | 326  |
| 13    | 1680  | 464   | 850   | 1310  | 598   | 1210  | 1730  | 550   | 372   | 302   | 360   | 492  |
| 14    | 1080  | 460   | 821   | 1080  | 598   | 948   | 3760  | 530   | 368   | 293   | 324   | 590  |
| 15    | 879   | 454   | 1340  | 943   | 593   | 827   | 3570  | 510   | 373   | 287   | 309   | 423  |
| 16    | 769   | 445   | 1300  | 852   | 583   | 804   | 3010  | 496   | 388   | 285   | 298   | 363  |
| 17    | 698   | 441   | 976   | 802   | 578   | 806   | 1890  | 496   | 414   | 287   | 288   | 329  |
| 18    | 644   | 439   | 873   | 770   | 584   | 787   | 1350  | 492   | 453   | 289   | 281   | 308  |
| 19    | 602   | 440   | 998   | 748   | 579   | 1730  | 1100  | 477   | 539   | 343   | 271   | 294  |
| 20    | 571   | 446   | 871   | 721   | 575   | 3580  | 974   | 474   | 620   | 313   | 266   | 289  |
| 21    | 549   | 452   | 1020  | 694   | 581   | 3370  | 894   | 541   | 648   | 352   | 263   | 307  |
| 22    | 530   | 462   | 1130  | 685   | 587   | 3260  | 839   | 621   | 575   | 353   | 262   | 318  |
| 23    | 520   | 472   | 1070  | 787   | 587   | 2120  | 800   | 590   | 532   | 319   | 261   | 328  |
| 24    | 506   | 473   | 902   | 933   | 590   | 1430  | 856   | 559   | 498   | 298   | 261   | 333  |
| 25    | 490   | 477   | 770   | 878   | 580   | 1190  | 945   | 517   | 479   | 285   | 266   | 339  |
| 26    | 481   | 487   | 698   | 779   | e590  | 1240  | 920   | 488   | 467   | 278   | 273   | 317  |
| 27    | 479   | 488   | 657   | 715   | e764  | 2150  | 869   | 465   | 485   | 282   | 292   | 310  |
| 28    | 479   | 488   | 624   | 712   | 1020  | 2250  | 803   | 449   | 567   | 298   | 278   | 301  |
| 29    | 476   | 481   | 604   | 763   | 1090  | 2280  | 751   | 433   | 511   | 299   | 269   | 292  |
| 30    | 479   | 469   | 589   | 845   | ---   | 2120  | 716   | 424   | 446   | 302   | 261   | 286  |
| 31    | 529   | ---   | 580   | 855   | ---   | 1510  | ---   | 415   | ---   | 357   | 259   | ---  |
| TOTAL | 31255 | 15254 | 22334 | 41942 | 19019 | 42517 | 77997 | 17249 | 13525 | 10144 | 10590 | 9626 |
| MEAN  | 1008  | 508   | 720   | 1353  | 656   | 1372  | 2600  | 556   | 451   | 327   | 342   | 321  |
| MAX   | 5910  | 764   | 1340  | 3760  | 1090  | 3580  | 10100 | 689   | 648   | 450   | 540   | 590  |
| MIN   | 447   | 439   | 453   | 579   | 575   | 560   | 716   | 415   | 368   | 278   | 259   | 247  |
| CFSM  | .58   | .29   | .41   | .77   | .38   | .78   | 1.49  | .32   | .26   | .19   | .20   | .18  |
| IN.   | .67   | .32   | .48   | .89   | .40   | .90   | 1.66  | .37   | .29   | .22   | .23   | .21  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

|      |      |      |       |       |       |       |       |       |      |       |      |      |
|------|------|------|-------|-------|-------|-------|-------|-------|------|-------|------|------|
| MEAN | 992  | 1610 | 2885  | 4142  | 5038  | 5156  | 4719  | 2857  | 1431 | 1445  | 1144 | 1063 |
| MAX  | 3187 | 6985 | 11840 | 11620 | 15550 | 10910 | 16810 | 11520 | 3958 | 10260 | 3644 | 4275 |
| (WY) | 1986 | 1949 | 1962  | 1990  | 1961  | 1943  | 1980  | 1991  | 1989 | 1940  | 1992 | 1979 |
| MIN  | 347  | 456  | 720   | 797   | 656   | 1221  | 825   | 544   | 451  | 327   | 342  | 321  |
| (WY) | 1964 | 1955 | 2000  | 1957  | 2000  | 1955  | 1963  | 1963  | 2000 | 2000  | 2000 | 2000 |

### SUMMARY STATISTICS

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR |        | FOR 2000 WATER YEAR |       | WATER YEARS 1938 - 2000 |             |
|--------------------------|------------------------|--------|---------------------|-------|-------------------------|-------------|
| ANNUAL TOTAL             | 558509                 |        | 311452              |       | 2695                    |             |
| ANNUAL MEAN              | 1530                   |        | 851                 |       | 5121                    | 1980        |
| HIGHEST ANNUAL MEAN      |                        |        |                     |       | 851                     | 2000        |
| LOWEST ANNUAL MEAN       |                        |        |                     |       |                         |             |
| HIGHEST DAILY MEAN       | 24200                  | Mar 14 | 10100               | Apr 5 | 110000                  | Apr 15 1974 |
| LOWEST DAILY MEAN        | 362                    | Sep 24 | 247                 | Sep 6 | 247                     | Sep 6 2000  |
| ANNUAL SEVEN-DAY MINIMUM | 365                    | Sep 21 | 260                 | Sep 1 | 260                     | Sep 1 2000  |
| INSTANTANEOUS PEAK FLOW  |                        |        | 10400               | Apr 4 | 121000                  | Apr 15 1974 |
| INSTANTANEOUS PEAK STAGE |                        |        | 11.34               | Apr 4 | 34.03                   | Apr 15 1974 |
| INSTANTANEOUS LOW FLOW   |                        |        | 240                 | Sep 6 | 240                     | Sep 6 2000  |
| ANNUAL RUNOFF (CFSM)     | .88                    |        | .49                 |       | 1.54                    |             |
| ANNUAL RUNOFF (INCHES)   | 11.89                  |        | 6.63                |       | 20.95                   |             |
| 10 PERCENT EXCEEDS       | 2630                   |        | 1390                |       | 6210                    |             |
| 50 PERCENT EXCEEDS       | 721                    |        | 544                 |       | 1290                    |             |
| 90 PERCENT EXCEEDS       | 441                    |        | 298                 |       | 555                     |             |

e Estimated

## PASCAGOULA RIVER BASIN

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02473000 LEAF RIVER AT HATTIESBURG, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1    | 2.30 | 1.93 | 1.47 | 1.71 | 2.10 | 2.36 | 2.72  | 1.72 | 1.14 | 1.23 | 1.05 | .79  |
| 2    | 2.14 | 2.03 | 1.46 | 1.71 | 2.04 | 2.17 | 2.50  | 1.67 | 1.13 | 1.22 | 1.07 | .79  |
| 3    | 1.75 | 2.02 | 1.46 | 1.76 | 2.00 | 2.01 | 4.29  | 1.64 | 1.11 | 1.13 | 1.32 | .78  |
| 4    | 1.57 | 1.82 | 1.47 | 3.61 | 1.93 | 2.05 | 10.58 | 1.61 | 1.10 | 1.07 | 1.40 | .79  |
| 5    | 1.49 | 1.66 | 1.48 | 5.56 | 1.88 | 1.95 | 11.09 | 1.60 | 1.09 | 1.03 | 1.39 | .76  |
| 6    | 1.42 | 1.60 | 1.47 | 5.81 | 1.83 | 1.82 | 10.72 | 1.70 | 1.13 | 1.00 | 1.26 | .74  |
| 7    | 1.39 | 1.57 | 1.48 | 5.37 | 1.79 | 1.75 | 9.57  | 1.69 | 1.15 | .98  | 1.11 | .74  |
| 8    | 1.43 | 1.55 | 1.49 | 3.90 | 1.78 | 1.71 | 6.07  | 1.65 | 1.17 | .97  | 1.05 | .81  |
| 9    | 2.93 | 1.53 | 1.49 | 3.00 | 1.77 | 1.69 | 4.13  | 1.60 | 1.15 | .96  | 1.00 | .90  |
| 10   | 5.52 | 1.52 | 1.49 | 5.48 | 1.76 | 1.67 | 3.35  | 1.55 | 1.12 | .94  | 1.13 | 1.00 |
| 11   | 7.80 | 1.51 | 1.52 | 5.11 | 1.75 | 1.97 | 2.95  | 1.50 | 1.09 | .92  | 1.32 | .92  |
| 12   | 5.10 | 1.49 | 1.65 | 3.67 | 1.74 | 2.83 | 2.69  | 1.47 | 1.06 | .90  | 1.15 | .93  |
| 13   | 3.42 | 1.48 | 2.20 | 2.92 | 1.75 | 2.77 | 3.44  | 1.43 | 1.06 | .90  | 1.02 | 1.29 |
| 14   | 2.57 | 1.47 | 2.14 | 2.58 | 1.75 | 2.36 | 5.81  | 1.40 | 1.05 | .88  | .94  | 1.49 |
| 15   | 2.23 | 1.46 | 2.96 | 2.35 | 1.74 | 2.16 | 5.63  | 1.35 | 1.06 | .86  | .90  | 1.15 |
| 16   | 2.02 | 1.44 | 2.90 | 2.20 | 1.72 | 2.12 | 5.02  | 1.33 | 1.10 | .86  | .88  | 1.02 |
| 17   | 1.89 | 1.43 | 2.40 | 2.12 | 1.71 | 2.12 | 3.70  | 1.33 | 1.15 | .86  | .85  | .94  |
| 18   | 1.79 | 1.43 | 2.24 | 2.06 | 1.72 | 2.09 | 2.97  | 1.32 | 1.24 | .89  | .84  | .89  |
| 19   | 1.71 | 1.43 | 2.44 | 2.02 | 1.71 | 3.46 | 2.60  | 1.29 | 1.41 | .99  | .81  | .86  |
| 20   | 1.66 | 1.44 | 2.23 | 1.97 | 1.70 | 5.63 | 2.37  | 1.28 | 1.57 | .92  | .79  | .85  |
| 21   | 1.61 | 1.45 | 2.48 | 1.93 | 1.71 | 5.42 | 2.20  | 1.42 | 1.62 | 1.01 | .78  | .89  |
| 22   | 1.58 | 1.48 | 2.64 | 1.91 | 1.73 | 5.30 | 2.07  | 1.57 | 1.48 | 1.02 | .78  | .92  |
| 23   | 1.56 | 1.50 | 2.56 | 2.09 | 1.73 | 3.99 | 1.98  | 1.51 | 1.40 | .94  | .78  | .94  |
| 24   | 1.54 | 1.50 | 2.29 | 2.34 | 1.73 | 3.09 | 2.10  | 1.45 | 1.33 | .89  | .77  | .95  |
| 25   | 1.50 | 1.51 | 2.06 | 2.24 | 1.71 | 2.74 | 2.29  | 1.37 | 1.29 | .86  | .79  | .97  |
| 26   | 1.48 | 1.53 | 1.93 | 2.08 | ---  | 2.81 | 2.23  | 1.31 | 1.27 | .84  | .81  | .91  |
| 27   | 1.48 | 1.53 | 1.86 | 1.96 | ---  | 4.03 | 2.09  | 1.26 | 1.30 | .85  | .85  | .90  |
| 28   | 1.48 | 1.53 | 1.80 | 1.96 | 2.48 | 4.15 | 1.94  | 1.23 | 1.47 | .89  | .82  | .87  |
| 29   | 1.48 | 1.52 | 1.76 | 2.05 | 2.59 | 4.19 | 1.85  | 1.19 | 1.35 | .88  | .80  | .85  |
| 30   | 1.49 | 1.49 | 1.73 | 2.19 | ---  | 3.99 | 1.78  | 1.17 | 1.22 | .89  | .77  | .84  |
| 31   | 1.59 | ---  | 1.71 | 2.21 | ---  | 3.19 | ---   | 1.16 | ---  | 1.01 | .77  | ---  |
| MEAN | 2.22 | 1.56 | 1.94 | 2.83 | ---  | 2.89 | 4.09  | 1.44 | 1.23 | .95  | .97  | .92  |
| MAX  | 7.80 | 2.03 | 2.96 | 5.81 | ---  | 5.63 | 11.09 | 1.72 | 1.62 | 1.23 | 1.40 | 1.49 |
| MIN  | 1.39 | 1.43 | 1.46 | 1.71 | ---  | 1.67 | 1.78  | 1.16 | 1.05 | .84  | .77  | .74  |

02473460 TALLAHALA CREEK AT WALDRUP, MS

LOCATION.--Lat 31°57'58", long 89°06'54", in SW1/4 NW1/4 SW1/4 sec.31, T.2 N., R.12 E., Choctaw Meridian, Jasper County, Hydrologic Unit 03170005, near right bank on downstream side of bridge on State Highway 528, 0.8 mi west of Waldrup, 11.6 mi east of Bay Springs, and 91.0 mi upstream from mouth.

DRAINAGE AREA.--102 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1961, 1964-65, and annual maximums, water years 1969-79. October 1979 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 290.00 ft above sea level. Prior to October 1979, at datum 290.00 ft lower. October 1979 to September 1980, non-recording gage and crest-stage gage at same site and datum.

REMARKS.--Estimated daily discharge: Oct. 29 - Nov. 2, Sept. 9-11 and Sept. 20-30. Records good except estimated daily discharges, which are poor. Satellite telemeter at station. Statistics shown below are for water years 1980 to the current year, except for instantaneous extremes, which are shown for the entire period of record at the present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Apr. 4 | 0500 | *2,930                         | *18.39           | No other peak greater than base discharge. |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB   | MAR    | APR    | MAY   | JUN   | JUL  | AUG  | SEP  |
|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|------|------|------|
| 1     | 7.7   | e6.0  | 5.0   | 8.9    | 20    | 23     | 47     | 5.7   | 4.5   | 6.9  | 4.3  | 1.3  |
| 2     | 4.3   | e8.4  | 4.9   | 11     | 18    | 18     | 274    | 4.7   | 3.6   | 4.3  | 7.2  | 1.3  |
| 3     | 3.4   | 7.6   | 4.9   | 13     | 15    | 15     | 1350   | 4.6   | 3.0   | 3.2  | 13   | 1.3  |
| 4     | 3.4   | 6.3   | 5.2   | 522    | 15    | 14     | 2730   | 4.4   | 2.8   | 2.6  | 11   | 1.3  |
| 5     | 3.5   | 6.0   | 5.5   | 280    | 13    | 12     | 1460   | 4.7   | 2.9   | 2.2  | 5.7  | 1.4  |
| 6     | 3.4   | 6.1   | 5.5   | 67     | 12    | 11     | 220    | 8.6   | 3.7   | 2.0  | 3.5  | 1.3  |
| 7     | 3.0   | 6.0   | 5.5   | 39     | 11    | 9.7    | 94     | 9.9   | 5.6   | 1.8  | 2.2  | 1.3  |
| 8     | 3.2   | 6.1   | 5.2   | 29     | 11    | 8.9    | 68     | 5.8   | 4.2   | 1.7  | 1.8  | 1.3  |
| 9     | 13    | 6.3   | 5.2   | 25     | 11    | 8.3    | 51     | 5.9   | 3.2   | 1.7  | 1.7  | e1.4 |
| 10    | 459   | 6.5   | 5.7   | 71     | 11    | 8.1    | 41     | 5.5   | 2.6   | 1.9  | 3.1  | e1.5 |
| 11    | 177   | 6.6   | 7.9   | 155    | 11    | 25     | 35     | 5.3   | 2.3   | 1.6  | 3.3  | e1.4 |
| 12    | 41    | 6.7   | 7.7   | 61     | 11    | 58     | 32     | 5.2   | 2.0   | 1.6  | 2.1  | 2.2  |
| 13    | 21    | 6.9   | 15    | 39     | 11    | 38     | 37     | 5.1   | 1.8   | 1.5  | 2.0  | 18   |
| 14    | 15    | 7.0   | 21    | 29     | 11    | 24     | 42     | 5.1   | 2.0   | 1.4  | 1.8  | 16   |
| 15    | 12    | 6.9   | 20    | 23     | 11    | 18     | 64     | 4.7   | 5.6   | 1.4  | 1.6  | 5.8  |
| 16    | 9.1   | 7.1   | 13    | 20     | 10    | 16     | 47     | 5.0   | 5.9   | 1.4  | 1.5  | 3.4  |
| 17    | 7.4   | 7.2   | 9.0   | 19     | 10    | 16     | 32     | 4.4   | 9.7   | 1.4  | 1.4  | 2.6  |
| 18    | 6.2   | 7.4   | 7.6   | 18     | 13    | 159    | 25     | 4.7   | 10    | 1.4  | 1.4  | 2.0  |
| 19    | 5.4   | 7.7   | 11    | 17     | 16    | 1390   | 20     | 4.7   | 8.0   | 1.5  | 1.4  | 1.7  |
| 20    | 5.1   | 7.9   | 15    | 16     | 13    | 1590   | 17     | 4.9   | 14    | 1.5  | 1.4  | e1.5 |
| 21    | 5.1   | 8.3   | 20    | 15     | 11    | 432    | 15     | 7.1   | 8.8   | 1.5  | 1.3  | e1.4 |
| 22    | 4.8   | 8.8   | 33    | 14     | 11    | 113    | 13     | 12    | 4.4   | 1.4  | 1.3  | e1.5 |
| 23    | 4.7   | 8.4   | 30    | 15     | 9.9   | 91     | 11     | 8.6   | 3.0   | 1.3  | 1.3  | e1.4 |
| 24    | 4.6   | 8.4   | 19    | 17     | 9.1   | 68     | 15     | 6.5   | 2.6   | 1.3  | 1.3  | e1.5 |
| 25    | 4.0   | 7.6   | 14    | 16     | 8.7   | 48     | 24     | 6.0   | 2.2   | 1.3  | 1.3  | e1.6 |
| 26    | 3.5   | 7.4   | 12    | 15     | 8.5   | 64     | 18     | 5.8   | 3.8   | 1.3  | 1.3  | e1.5 |
| 27    | 3.6   | 8.3   | 11    | 14     | 27    | 243    | 13     | 5.4   | 6.9   | 1.3  | 1.3  | e1.6 |
| 28    | 4.0   | 7.1   | 9.6   | 15     | 57    | 207    | 12     | 5.3   | 4.3   | 2.3  | 1.3  | e1.7 |
| 29    | e4.0  | 5.9   | 8.9   | 22     | 35    | 86     | 10     | 6.5   | 6.6   | 5.7  | 1.3  | e1.6 |
| 30    | e4.5  | 5.5   | 8.4   | 24     | ---   | 58     | 7.7    | 7.3   | 8.4   | 2.5  | 1.3  | e1.5 |
| 31    | e5.0  | ---   | 7.9   | 23     | ---   | 47     | ---    | 5.6   | ---   | 2.3  | 1.3  | ---  |
| TOTAL | 850.9 | 212.4 | 353.6 | 1652.9 | 431.2 | 4919.0 | 6824.7 | 185.0 | 148.4 | 65.2 | 85.7 | 83.3 |
| MEAN  | 27.4  | 7.08  | 11.4  | 53.3   | 14.9  | 159    | 227    | 5.97  | 4.95  | 2.10 | 2.76 | 2.78 |
| MAX   | 459   | 8.8   | 33    | 522    | 57    | 1590   | 2730   | 12    | 14    | 6.9  | 13   | 18   |
| MIN   | 3.0   | 5.5   | 4.9   | 8.9    | 8.5   | 8.1    | 7.7    | 4.4   | 1.8   | 1.3  | 1.3  | 1.3  |
| CFSM  | .27   | .07   | .11   | .52    | .15   | 1.56   | 2.23   | .06   | .05   | .02  | .03  | .03  |
| IN.   | .31   | .08   | .13   | .60    | .16   | 1.79   | 2.49   | .07   | .05   | .02  | .03  | .03  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000, BY WATER YEAR (WY)

|      | MEAN | 120  | 179  | 339  | 388  | 368  | 285  | 127  | 52.7 | 63.5 | 29.3 | 25.1 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 294  | 367  | 710  | 1090 | 1119 | 880  | 737  | 739  | 221  | 429  | 165  | 263  |
| (WY) | 1986 | 1987 | 1983 | 1998 | 1990 | 1980 | 1991 | 1991 | 1983 | 1989 | 1982 | 1988 |
| MIN  | 4.83 | 6.79 | 11.4 | 30.5 | 14.9 | 131  | 35.8 | 5.97 | 2.90 | 2.10 | 2.76 | 2.78 |
| (WY) | 1988 | 1982 | 2000 | 1981 | 2000 | 1982 | 1986 | 2000 | 1988 | 2000 | 2000 | 2000 |

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1980 - 2000

|                          |         |         |       |
|--------------------------|---------|---------|-------|
| ANNUAL TOTAL             | 31430.2 | 15812.3 |       |
| ANNUAL MEAN              | 86.1    | 43.2    | 167   |
| HIGHEST ANNUAL MEAN      |         |         | 301   |
| LOWEST ANNUAL MEAN       |         |         | 43.2  |
| HIGHEST DAILY MEAN       | 5050    | 2730    | 10900 |
| LOWEST DAILY MEAN        | 1.9     | 1.3     | 1.3   |
| ANNUAL SEVEN-DAY MINIMUM | 2.3     | 1.3     | 1.3   |
| INSTANTANEOUS PEAK FLOW  |         | 2930    | 17900 |
| INSTANTANEOUS PEAK STAGE |         | 18.39   | 23.18 |
| INSTANTANEOUS LOW FLOW   |         | 1.3     | 1.3   |
| ANNUAL RUNOFF (CFSM)     | .84     | .42     | 1.64  |
| ANNUAL RUNOFF (INCHES)   | 11.46   | 5.77    | 22.31 |
| 10 PERCENT EXCEEDS       | 106     | 41      | 389   |
| 50 PERCENT EXCEEDS       | 8.6     | 7.1     | 29    |
| 90 PERCENT EXCEEDS       | 3.1     | 1.4     | 5.7   |

e Estimated

a Also occurred on Jul. 24-26, 27, Aug. 21, Aug. 22 - Sept. 3, Sept. 4,5,6-7,8.

## 02473500 TALLAHALA CREEK AT LAUREL, MS

LOCATION.--Lat 31°40'51", long 89°06'57", in NE1/4 NE1/4 sec.8, T.8 N., R.11 W., St. Stephens Meridian, Jones County, Hydrologic Unit 03170005, on right bank 45 ft upstream of bridge on State Highway 15, 0.5 mi upstream from Illinois Central and Gulf Railroad bridge, 0.5 mi southeast of city limits of Laurel, 13.1 mi upstream from Tallahoma Creek, and 54.0 mi from mouth.

DRAINAGE AREA.--238 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1938 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 201.37 ft above sea level (Mississippi Department of Transportation bench mark). Prior to Dec. 14, 1938, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1880, about 26 ft, Dec. 9, 1919. Flood in April 1900 reached a stage of about 24 ft, from information by local residents. Flood in April 1938 reached a stage of 20.7 ft, from information by Mississippi Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 7 | 1100 | *2,340                            | *12.49              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------|------|-------|------|------|------|------|-------|------|------|-------|-------|-------|
| 1     | 22   | 15    | 13   | 26   | 93   | 111  | 181   | 44   | 13   | 9.7   | 7.1   | 4.9   |
| 2     | 20   | 13    | 14   | 25   | 82   | 84   | 235   | 42   | 13   | 11    | 15    | 5.0   |
| 3     | 24   | 12    | 12   | 90   | 73   | 65   | 825   | 39   | 12   | 10    | 25    | 4.7   |
| 4     | 27   | 11    | 12   | 686  | 66   | 53   | 1420  | 36   | 11   | 11    | 11    | 4.5   |
| 5     | 20   | 12    | 11   | 853  | 60   | 46   | 1410  | 32   | 13   | 11    | 8.3   | 5.4   |
| 6     | 16   | 12    | 13   | 783  | 54   | 42   | 1780  | 30   | 13   | 11    | 12    | 5.1   |
| 7     | 15   | 12    | 13   | 464  | 52   | 39   | 2290  | 29   | 12   | 9.9   | 14    | 5.1   |
| 8     | 70   | 11    | 13   | 224  | 49   | 37   | 1970  | 33   | 12   | 9.2   | 15    | 5.0   |
| 9     | 327  | 12    | 14   | 495  | 48   | 36   | 793   | 30   | 12   | 8.3   | 12    | 4.1   |
| 10    | 877  | 9.8   | 14   | 1020 | 48   | 37   | 310   | 31   | 11   | 8.4   | 11    | 3.7   |
| 11    | 807  | 9.4   | 13   | 682  | 46   | 77   | 229   | 27   | 10   | 10    | 16    | 4.6   |
| 12    | 536  | 8.4   | 15   | 403  | 45   | 118  | 185   | 25   | 11   | 9.1   | 9.6   | 6.5   |
| 13    | 236  | 8.9   | 42   | 299  | 43   | 143  | 162   | 22   | 13   | 7.7   | 8.4   | 9.0   |
| 14    | 118  | 9.3   | 31   | 199  | 44   | 136  | 161   | 20   | 13   | 6.8   | 9.6   | 4.3   |
| 15    | 75   | 8.8   | 36   | 147  | 44   | 98   | 177   | 20   | 12   | 7.0   | 10    | 4.5   |
| 16    | 55   | 9.3   | 38   | 117  | 44   | 75   | 161   | 19   | 11   | 12    | 8.8   | 3.9   |
| 17    | 42   | 8.1   | 37   | 100  | 42   | 63   | 162   | 18   | 19   | 51    | 8.9   | 3.0   |
| 18    | 33   | 7.9   | 41   | 89   | 42   | 59   | 133   | 17   | 19   | 25    | 8.8   | 10    |
| 19    | 28   | 9.3   | 47   | 82   | 40   | 216  | 106   | 16   | 21   | 8.4   | 7.8   | 10    |
| 20    | 24   | 9.9   | 40   | 76   | 40   | 746  | 89    | 15   | 23   | 6.6   | 6.5   | 8.5   |
| 21    | 21   | 11    | 74   | 71   | 45   | 909  | 77    | 16   | 24   | 6.7   | 7.1   | 9.3   |
| 22    | 20   | 9.3   | 77   | 66   | 43   | 998  | 67    | 16   | 33   | 8.8   | 6.9   | 12    |
| 23    | 18   | 10    | 80   | 65   | 41   | 1090 | 60    | 15   | 23   | 11    | 6.4   | 7.6   |
| 24    | 17   | 12    | 74   | 76   | 38   | 637  | 65    | 16   | 21   | 6.1   | 6.1   | 5.3   |
| 25    | 16   | 15    | 68   | 88   | 37   | 274  | 57    | 16   | 16   | 6.4   | 5.8   | 6.1   |
| 26    | 15   | 17    | 54   | 83   | 36   | 314  | 60    | 19   | 14   | 6.3   | 4.7   | 5.5   |
| 27    | 14   | 14    | 44   | 71   | 82   | 430  | 65    | 16   | 12   | 5.3   | 3.7   | 5.1   |
| 28    | 14   | 15    | 37   | 72   | 82   | 533  | 60    | 16   | 11   | 5.7   | 4.6   | 5.2   |
| 29    | 13   | 15    | 32   | 86   | 95   | 485  | 52    | 14   | 10   | 5.2   | 4.3   | 4.4   |
| 30    | 13   | 14    | 30   | 101  | ---  | 326  | 47    | 14   | 10   | 6.8   | 3.6   | 3.3   |
| 31    | 14   | ---   | 27   | 102  | ---  | 226  | ---   | 13   | ---  | 8.2   | 4.3   | ---   |
| TOTAL | 3547 | 341.4 | 1066 | 7741 | 1554 | 8503 | 13389 | 716  | 448  | 319.6 | 282.3 | 175.6 |
| MEAN  | 114  | 11.4  | 34.4 | 250  | 53.6 | 274  | 446   | 23.1 | 14.9 | 10.3  | 9.11  | 5.85  |
| MAX   | 877  | 17    | 80   | 1020 | 95   | 1090 | 2290  | 44   | 33   | 51    | 25    | 12    |
| MIN   | 13   | 7.9   | 11   | 25   | 36   | 36   | 47    | 13   | 10   | 5.2   | 3.6   | 3.0   |
| CFSM  | .48  | .05   | .14  | 1.05 | .23  | 1.15 | 1.88  | .10  | .06  | .04   | .04   | .02   |
| IN.   | .55  | .05   | .17  | 1.21 | .24  | 1.33 | 2.09  | .11  | .07  | .05   | .04   | .03   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

|      | MEAN | 62.1 | 167  | 381  | 594  | 744  | 793  | 686  | 335  | 123  | 129  | 74.7 | 61.9 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 433  | 1386 | 1967 | 2286 | 2478 | 1741 | 2366 | 1868 | 604  | 1604 | 378  | 381  |      |
| (WY) | 1986 | 1949 | 1962 | 1947 | 1961 | 1980 | 1980 | 1953 | 1997 | 1940 | 1944 | 1988 |      |
| MIN  | 3.07 | 6.17 | 30.9 | 29.9 | 53.6 | 86.4 | 53.9 | 15.4 | 8.77 | 10.3 | 9.11 | 5.69 |      |
| (WY) | 1964 | 1957 | 1957 | 2000 | 1957 | 1963 | 1963 | 1988 | 2000 | 2000 | 2000 | 1954 |      |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1938 - 2000

|                          |         |         |       |
|--------------------------|---------|---------|-------|
| ANNUAL TOTAL             | 57108.2 | 38082.9 |       |
| ANNUAL MEAN              | 156     | 104     | 344   |
| HIGHEST ANNUAL MEAN      |         |         | 726   |
| LOWEST ANNUAL MEAN       |         |         | 104   |
| HIGHEST DAILY MEAN       | 3350    | Feb 3   | 18400 |
| LOWEST DAILY MEAN        | 4.7     | Sep 26  | 1.8   |
| ANNUAL SEVEN-DAY MINIMUM | 5.3     | Sep 21  | 2.0   |
| INSTANTANEOUS PEAK FLOW  |         |         | 23300 |
| INSTANTANEOUS PEAK STAGE |         |         | 23.28 |
| INSTANTANEOUS LOW FLOW   |         |         | 1.8   |
| ANNUAL RUNOFF (CFSM)     | .66     |         | 1.44  |
| ANNUAL RUNOFF (INCHES)   | 8.93    |         | 19.63 |
| 10 PERCENT EXCEEDS       | 327     | 225     | 938   |
| 50 PERCENT EXCEEDS       | 34      | 20      | 94    |
| 90 PERCENT EXCEEDS       | 9.4     | 6.4     | 14    |



02474500 TALLAHALA CREEK NEAR RUNNELSTOWN, MS

LOCATION.--Lat 31°19'58", long 89°06'44", in SE1/4 SE1/4 SE1/4 sec.5, T.4 N., R.11 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170005, on right bank at downstream side of bridge on county highway between Sunrise and Runnelstown, 3.0 mi south of Runnelstown, and 9 mi upstream from mouth.

DRAINAGE AREA.--612 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1939 to September 1982. October 1982 to September 1984 (high water records only).  
October 1984 to current year. Monthly discharge only for October 1939, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 104.58 ft above sea level. Prior to Oct. 1, 1971, at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Feb. 25-28, Jul. 18-21 and Aug. 13-15. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since about 1865, 30 1/2 ft in April 1900, flood in December 1919 reached a stage of 26 1/2 ft, and flood in about 1865 reached a stage between 26 1/2 ft and 30 1/2 ft, all from information by local residents, at datum 5.00 ft higher.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 8 | 1245 | *3.390                            | *12.77              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN   | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|-------|------|-------|-------|------|------|------|------|------|
| 1     | 138  | 92   | 58   | 128   | 332  | 322   | 610   | 159  | 54   | 42   | 88   | 32   |
| 2     | 92   | 92   | 56   | 125   | 302  | 309   | 507   | 150  | 53   | 37   | 63   | 32   |
| 3     | 72   | 85   | 56   | 125   | 272  | 270   | 804   | 168  | 53   | 34   | 47   | 32   |
| 4     | 69   | 72   | 57   | 527   | 250  | 272   | 2610  | 149  | 51   | 33   | 87   | 31   |
| 5     | 74   | 68   | 59   | 1930  | 230  | 223   | 3230  | 136  | 50   | 31   | 131  | 30   |
| 6     | 74   | 67   | 58   | 1840  | 213  | 193   | 3280  | 126  | 48   | 30   | 71   | 28   |
| 7     | 68   | 68   | 56   | 1470  | 203  | 181   | 3280  | 117  | 48   | 31   | 51   | 27   |
| 8     | 65   | 66   | 57   | 908   | 191  | 171   | 3370  | 109  | 49   | 33   | 46   | 30   |
| 9     | 402  | 63   | 60   | 562   | 181  | 164   | 2910  | 103  | 47   | 33   | 43   | 33   |
| 10    | 732  | 62   | 63   | 1950  | 177  | 158   | 1520  | 103  | 47   | 33   | 44   | 34   |
| 11    | 1720 | 63   | 65   | 2560  | 173  | 194   | 761   | 99   | 46   | 33   | 46   | 35   |
| 12    | 2060 | 62   | 68   | 1720  | 170  | 453   | 590   | 97   | 45   | 32   | 56   | 36   |
| 13    | 1460 | 60   | 135  | 1060  | 168  | 474   | 544   | 92   | 44   | 33   | e52  | 18   |
| 14    | 670  | 58   | 172  | 733   | 164  | 446   | 542   | 86   | 46   | 35   | e39  | 38   |
| 15    | 379  | 56   | 140  | 547   | 163  | 385   | 546   | 79   | 49   | 32   | e36  | 56   |
| 16    | 261  | 55   | 152  | 443   | 160  | 328   | 531   | 74   | 58   | 31   | 35   | 40   |
| 17    | 202  | 55   | 159  | 376   | 158  | 283   | 481   | 73   | 63   | 31   | 33   | 33   |
| 18    | 164  | 55   | 156  | 334   | 157  | 255   | 449   | 71   | 56   | e34  | 33   | 31   |
| 19    | 138  | 56   | 216  | 307   | 155  | 427   | 381   | 70   | 92   | e37  | 32   | 30   |
| 20    | 120  | 54   | 235  | 287   | 148  | 1310  | 324   | 68   | 91   | e36  | 30   | 35   |
| 21    | 109  | 53   | 220  | 265   | 145  | 1790  | 282   | 72   | 101  | e70  | 31   | 41   |
| 22    | 100  | 53   | 324  | 249   | 149  | 1900  | 251   | 69   | 92   | 59   | 30   | 41   |
| 23    | 93   | 53   | 299  | 260   | 148  | 1760  | 226   | 68   | 82   | 48   | 29   | 37   |
| 24    | 87   | 54   | 285  | 321   | 145  | 1560  | 221   | 65   | 117  | 47   | 29   | 44   |
| 25    | 80   | 55   | 245  | 313   | e150 | 1050  | 276   | 63   | 87   | 51   | 30   | 39   |
| 26    | 77   | 58   | 213  | 305   | e147 | 697   | 234   | 66   | 72   | 41   | 29   | 33   |
| 27    | 76   | 60   | 187  | 288   | e185 | 1190  | 209   | 65   | 59   | 37   | 29   | 30   |
| 28    | 75   | 62   | 167  | 265   | e360 | 1500  | 202   | 64   | 56   | 36   | 29   | 28   |
| 29    | 73   | 59   | 153  | 268   | 328  | 1320  | 194   | 60   | 51   | 35   | 29   | 28   |
| 30    | 72   | 57   | 141  | 319   | ---  | 1060  | 177   | 57   | 46   | 33   | 27   | 28   |
| 31    | 74   | ---  | 134  | 340   | ---  | 795   | ---   | 55   | ---  | 37   | 28   | ---  |
| TOTAL | 9876 | 1873 | 4446 | 21125 | 5724 | 21440 | 29542 | 2833 | 1853 | 1165 | 1383 | 1030 |
| MEAN  | 319  | 62.4 | 143  | 681   | 197  | 692   | 985   | 91.4 | 61.8 | 37.6 | 44.6 | 34.3 |
| MAX   | 2060 | 92   | 324  | 2560  | 360  | 1900  | 3370  | 168  | 117  | 70   | 131  | 56   |
| MIN   | 65   | 53   | 56   | 125   | 145  | 158   | 177   | 55   | 44   | 30   | 27   | 27   |
| CFSM  | .52  | .10  | .23  | 1.11  | .32  | 1.13  | 1.61  | .15  | .10  | .06  | .07  | .06  |
| IN.   | .60  | .11  | .27  | 1.28  | .35  | 1.30  | 1.80  | .17  | .11  | .07  | .08  | .03  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 222  | 471  | 1024 | 1545 | 1878 | 1989 | 1761 | 992  | 383  | 425  | 262  | 246  |
| MAX  | 936  | 2635 | 4400 | 5061 | 5750 | 4291 | 6595 | 4728 | 1578 | 4294 | 933  | 1134 |
| (WY) | 1958 | 1949 | 1962 | 1998 | 1961 | 1948 | 1980 | 1991 | 1997 | 1940 | 1944 | 1957 |
| MIN  | 32.5 | 39.4 | 97.1 | 131  | 197  | 343  | 162  | 77.1 | 61.8 | 37.6 | 44.6 | 34.3 |
| (WY) | 1964 | 1964 | 1955 | 1957 | 2000 | 1957 | 1963 | 1963 | 2000 | 2000 | 2000 | 2000 |

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1940 - 2000 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |        |        |        |         |       |             |
|--------------------------|--------|--------|--------|---------|-------|-------------|
| ANNUAL TOTAL             | 165970 |        | 102290 |         |       |             |
| ANNUAL MEAN              | 455    |        | 279    |         | 924   |             |
| HIGHEST ANNUAL MEAN      |        |        |        |         | 1949  | 1949        |
| LOWEST ANNUAL MEAN       |        |        |        |         | 279   | 2000        |
| HIGHEST DAILY MEAN       | 8610   | Mar 14 | 3370   | Apr 8   | 29600 | Feb 25 1961 |
| LOWEST DAILY MEAN        | 48     | Sep 24 | 27     | Aug 30  | 27    | Aug 30 2000 |
| ANNUAL SEVEN-DAY MINIMUM | 48     | Sep 22 | 29     | Aug 25  | 29    | Aug 25 2000 |
| INSTANTANEOUS PEAK FLOW  |        |        | 3390   | Apr 8   | 32800 | Feb 24 1961 |
| INSTANTANEOUS PEAK STAGE |        |        | 12.77  | Apr 8   | 30.07 | Feb 24 1961 |
| INSTANTANEOUS LOW FLOW   |        |        | 27     | Aug 29a | 27    | Aug 29 2000 |
| ANNUAL RUNOFF (CFSM)     | .74    |        | .46    |         | 1.51  |             |
| ANNUAL RUNOFF (INCHES)   | 10.09  |        | 6.22   |         | 20.52 |             |
| 10 PERCENT EXCEEDS       | 841    |        | 596    |         | 2570  |             |
| 50 PERCENT EXCEEDS       | 142    |        | 86     |         | 358   |             |
| 90 PERCENT EXCEEDS       | 57     |        | 33     |         | 75    |             |

e Estimated

a Also occurred on Aug. 30, 31 and Sept. 6, 7, 8.

## PASCAGOULA RIVER BASIN

71

02474560 LEAF RIVER NEAR NEW AUGUSTA, MS

LOCATION.--Lat 31°13'18", long 89°03'02", in NE1/4 SW1/4 sec.13, T.3 N., R.11 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170005, on left bank at downstream abutment of bridge on State Highway 29, 4.2 mi downstream from Tallahala Creek and 1.4 mi north of courthouse in New Augusta, and at mile 43.6.

DRAINAGE AREA.--2,542 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1983 to current year. Daily mean gage heights published since December 1983.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 72.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of February 1961 and April 1974 reached stage of 35.3 ft, discharge, 112,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 17,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 5 | 2015 | *11,900                           | *13.19              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 1     | 969   | 835   | 666   | 860   | 1220  | 1450  | 2170   | 942   | 504   | 511   | 484   | 397   |
| 2     | 978   | 887   | 668   | 853   | 1150  | 1340  | 1830   | 907   | 497   | 507   | 504   | 384   |
| 3     | 841   | 897   | 663   | 857   | 1100  | 1220  | 2070   | 937   | 492   | 495   | 508   | 375   |
| 4     | 701   | 846   | 667   | 1170  | 1050  | 1190  | 7530   | 877   | 483   | 473   | 569   | 372   |
| 5     | 634   | 750   | 680   | 4150  | 1010  | 1150  | 11500  | 841   | 478   | 455   | 624   | 370   |
| 6     | 592   | 695   | 683   | 5280  | 973   | 1050  | 11600  | 849   | 478   | 443   | 592   | 372   |
| 7     | 575   | 674   | 676   | 4830  | 944   | 988   | 11500  | 857   | 480   | 437   | 515   | 361   |
| 8     | 572   | 661   | 678   | 3650  | 930   | 954   | 8830   | 832   | 483   | 435   | 468   | 378   |
| 9     | 2640  | 653   | 690   | 2250  | 925   | 934   | 5950   | 793   | 483   | 432   | 460   | 400   |
| 10    | 2750  | 651   | 696   | 3530  | 930   | 920   | 3890   | 767   | 483   | 429   | 447   | 438   |
| 11    | 6380  | 643   | 714   | 5990  | 911   | 979   | 2470   | 741   | 464   | 413   | 614   | 423   |
| 12    | 5740  | 639   | 749   | 4200  | 905   | 1460  | 2060   | 711   | 449   | 406   | 549   | 412   |
| 13    | 3930  | 631   | 1070  | 2680  | 897   | 1850  | 1950   | 690   | 438   | 403   | 511   | 460   |
| 14    | 2370  | 627   | 1120  | 2070  | 892   | 1670  | 3390   | 672   | 441   | 402   | 450   | 573   |
| 15    | 1620  | 620   | 1280  | 1700  | 896   | 1440  | 4130   | 648   | 430   | 395   | 419   | 558   |
| 16    | 1300  | 609   | 1580  | 1470  | 895   | 1350  | 3760   | 623   | 464   | 393   | 403   | 472   |
| 17    | 1120  | 598   | 1420  | 1330  | 893   | 1270  | 2950   | 610   | 494   | 404   | 395   | 429   |
| 18    | 995   | 601   | 1240  | 1250  | 885   | 1250  | 2180   | 599   | 507   | 406   | 387   | 407   |
| 19    | 893   | 605   | 1580  | 1190  | 887   | 1720  | 1800   | 586   | 535   | 488   | 382   | 392   |
| 20    | 824   | 609   | 1360  | 1140  | 886   | 3810  | 1550   | 577   | 627   | 501   | 376   | 384   |
| 21    | 775   | 621   | 1430  | 1090  | 885   | 5040  | 1390   | 636   | 659   | 457   | 370   | 392   |
| 22    | 746   | 624   | 1540  | 1070  | 886   | 5170  | 1270   | 640   | 654   | 554   | 363   | 444   |
| 23    | 718   | 633   | 1520  | 1070  | 893   | 4520  | 1180   | 683   | 594   | 505   | 360   | 410   |
| 24    | 697   | 643   | 1410  | 1250  | 902   | 3390  | 1230   | 644   | 576   | 440   | 361   | 414   |
| 25    | 684   | 651   | 1230  | 1300  | 905   | 2710  | 1340   | 615   | 571   | 420   | 361   | 419   |
| 26    | 665   | 661   | 1100  | 1210  | 887   | 2070  | 1320   | 585   | 654   | 406   | 371   | 413   |
| 27    | 653   | 672   | 1030  | 1130  | 962   | 2900  | 1220   | 565   | 567   | 394   | 377   | 400   |
| 28    | 649   | 680   | 963   | 1080  | 1270  | 3800  | 1120   | 546   | 600   | 397   | 382   | 390   |
| 29    | 646   | 679   | 926   | 1090  | 1490  | 3620  | 1050   | 546   | 622   | 399   | 371   | 382   |
| 30    | 643   | 673   | 896   | 1170  | ---   | 3510  | 993    | 526   | 558   | 399   | 366   | 380   |
| 31    | 680   | ---   | 874   | 1240  | ---   | 2810  | ---    | 514   | ---   | 422   | 363   | ---   |
| TOTAL | 43980 | 20268 | 31799 | 63150 | 28259 | 67535 | 105223 | 21559 | 15765 | 13621 | 13702 | 12401 |
| MEAN  | 1419  | 676   | 1026  | 2037  | 974   | 2179  | 3507   | 695   | 526   | 439   | 442   | 413   |
| MAX   | 6380  | 897   | 1580  | 5990  | 1490  | 5170  | 11600  | 942   | 659   | 554   | 624   | 573   |
| MIN   | 572   | 598   | 663   | 853   | 885   | 920   | 993    | 514   | 430   | 393   | 360   | 361   |
| CFSM  | .56   | .27   | .40   | .80   | .38   | .86   | 1.38   | .27   | .21   | .17   | .17   | .16   |
| IN.   | .64   | .30   | .47   | .92   | .41   | .99   | 1.54   | .32   | .23   | .20   | .20   | .18   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2000, BY WATER YEAR (WY)

|      | 1984 | 1985 | 1986 | 1987  | 1988  | 1989  | 1990 | 1991  | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|-------|-------|-------|------|-------|------|------|------|------|------|------|------|------|------|
| MEAN | 1550 | 2682 | 3412 | 6858  | 7114  | 7084  | 4945 | 4154  | 2383 | 2044 | 1441 | 1201 |      |      |      |      |      |
| MAX  | 3904 | 6466 | 7355 | 16280 | 21510 | 14330 | 9662 | 18250 | 6190 | 6709 | 2516 | 3485 |      |      |      |      |      |
| (WY) | 1985 | 1994 | 1987 | 1998  | 1990  | 1987  | 1991 | 1991  | 1997 | 1993 | 1985 | 1988 |      |      |      |      |      |
| MIN  | 713  | 676  | 1026 | 2037  | 974   | 2179  | 1624 | 695   | 526  | 439  | 442  | 413  |      |      |      |      |      |
| (WY) | 1988 | 2000 | 2000 | 2000  | 2000  | 2000  | 1986 | 2000  | 2000 | 2000 | 2000 | 2000 |      |      |      |      |      |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1984 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 796852                 | 437262              |                         |
| ANNUAL MEAN              | 2183                   | 1195                | 3747                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 6332                    |
| LOWEST ANNUAL MEAN       |                        |                     | 1195                    |
| HIGHEST DAILY MEAN       | 27900                  | Mar 15              | 74000                   |
| LOWEST DAILY MEAN        | 472                    | Sep 25              | 360                     |
| ANNUAL SEVEN-DAY MINIMUM | 476                    | Sep 22              | 366                     |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 11900                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 13.19                   |
| INSTANTANEOUS LOW FLOW   |                        |                     | 357                     |
| ANNUAL RUNOFF (CFSM)     | .86                    | .47                 | 1.47                    |
| ANNUAL RUNOFF (INCHES)   | 11.66                  | 6.40                | 20.03                   |
| 10 PERCENT EXCEEDS       | 3830                   | 2400                | 8840                    |
| 50 PERCENT EXCEEDS       | 1040                   | 687                 | 1940                    |
| 90 PERCENT EXCEEDS       | 634                    | 400                 | 814                     |

a Also occurred on Aug. 24, 25, 30, 31 and Sept. 6, 7.

## PASCAGOULA RIVER BASIN

02474560 LEAF RIVER NEAR NEW AUGUSTA, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1    | 2.62 | 2.39 | 1.99 | 2.27 | 2.87 | 3.03 | 3.93  | 2.41 | 1.65 | 1.62 | 1.54 | 1.35 |
| 2    | 2.64 | 2.48 | 1.99 | 2.26 | 2.76 | 2.86 | 3.47  | 2.35 | 1.63 | 1.61 | 1.59 | 1.32 |
| 3    | 2.40 | 2.49 | 1.98 | 2.26 | 2.68 | 2.66 | 3.78  | 2.40 | 1.62 | 1.59 | 1.60 | 1.30 |
| 4    | 2.14 | 2.41 | 1.98 | 2.77 | 2.59 | 2.61 | 9.47  | 2.30 | 1.60 | 1.53 | 1.72 | 1.29 |
| 5    | 2.01 | 2.23 | 2.00 | 6.49 | 2.51 | 2.54 | 12.88 | 2.24 | 1.59 | 1.49 | 1.83 | 1.29 |
| 6    | 1.93 | 2.13 | 2.00 | 7.66 | 2.45 | 2.36 | 13.02 | 2.25 | 1.59 | 1.47 | 1.77 | 1.30 |
| 7    | 1.89 | 2.09 | 1.98 | 7.22 | 2.39 | 2.26 | 12.88 | 2.28 | 1.60 | 1.45 | 1.61 | 1.27 |
| 8    | 1.89 | 2.06 | 1.98 | 5.98 | 2.36 | 2.19 | 10.80 | 2.23 | 1.60 | 1.44 | 1.51 | 1.31 |
| 9    | 4.77 | 2.05 | 1.99 | 4.32 | 2.34 | 2.15 | 8.30  | 2.16 | 1.60 | 1.43 | 1.49 | 1.36 |
| 10   | 5.11 | 2.04 | 2.00 | 5.74 | 2.34 | 2.12 | 6.23  | 2.11 | 1.60 | 1.42 | 1.46 | 1.44 |
| 11   | 8.82 | 2.03 | 2.02 | 8.34 | 2.30 | 2.21 | 4.61  | 2.07 | 1.56 | 1.39 | 1.81 | 1.41 |
| 12   | 8.26 | 2.02 | 2.09 | 6.56 | 2.29 | 2.97 | 4.07  | 2.02 | 1.53 | 1.37 | 1.68 | 1.39 |
| 13   | 6.44 | 2.01 | 2.62 | 4.86 | 2.27 | 3.52 | 3.93  | 1.98 | 1.51 | 1.37 | 1.60 | 1.49 |
| 14   | 4.63 | 2.00 | 2.71 | 4.08 | 2.25 | 3.25 | 5.67  | 1.95 | 1.51 | 1.36 | 1.47 | 1.73 |
| 15   | 3.63 | 1.98 | 2.96 | 3.59 | 2.25 | 2.91 | 6.50  | 1.90 | 1.49 | 1.35 | 1.40 | 1.70 |
| 16   | 3.16 | 1.96 | 3.41 | 3.26 | 2.24 | 2.78 | 6.10  | 1.86 | 1.56 | 1.34 | 1.37 | 1.52 |
| 17   | 2.87 | 1.94 | 3.18 | 3.05 | 2.23 | 2.67 | 5.18  | 1.83 | 1.62 | 1.37 | 1.35 | 1.43 |
| 18   | 2.66 | 1.94 | 2.90 | 2.91 | 2.21 | 2.63 | 4.23  | 1.81 | 1.64 | 1.37 | 1.33 | 1.38 |
| 19   | 2.49 | 1.94 | 3.41 | 2.83 | 2.21 | 3.30 | 3.72  | 1.78 | 1.70 | 1.55 | 1.32 | 1.34 |
| 20   | 2.37 | 1.94 | 3.09 | 2.75 | 2.20 | 5.84 | 3.37  | 1.77 | 1.89 | 1.58 | 1.30 | 1.32 |
| 21   | 2.28 | 1.96 | 3.20 | 2.67 | 2.19 | 7.14 | 3.13  | 1.89 | 1.95 | 1.49 | 1.29 | 1.34 |
| 22   | 2.23 | 1.96 | 3.35 | 2.62 | 2.18 | 7.27 | 2.94  | 1.90 | 1.93 | 1.69 | 1.27 | 1.46 |
| 23   | 2.17 | 1.98 | 3.33 | 2.64 | 2.19 | 6.61 | 2.80  | 1.99 | 1.81 | 1.59 | 1.27 | 1.38 |
| 24   | 2.13 | 1.99 | 3.16 | 2.91 | 2.19 | 5.40 | 2.89  | 1.91 | 1.78 | 1.45 | 1.27 | 1.39 |
| 25   | 2.11 | 2.00 | 2.88 | 3.00 | 2.19 | 4.60 | 3.05  | 1.86 | 1.77 | 1.40 | 1.27 | 1.40 |
| 26   | 2.07 | 2.01 | 2.68 | 2.85 | 2.16 | 3.80 | 3.02  | 1.80 | 1.92 | 1.37 | 1.29 | 1.39 |
| 27   | 2.05 | 2.03 | 2.56 | 2.72 | 2.28 | 4.82 | 2.87  | 1.76 | 1.75 | 1.35 | 1.31 | 1.36 |
| 28   | 2.04 | 2.04 | 2.45 | 2.65 | 2.76 | 5.86 | 2.72  | 1.72 | 1.81 | 1.35 | 1.32 | 1.34 |
| 29   | 2.03 | 2.03 | 2.39 | 2.66 | 3.10 | 5.66 | 2.59  | 1.72 | 1.86 | 1.36 | 1.29 | 1.32 |
| 30   | 2.03 | 2.01 | 2.33 | 2.78 | ---  | 5.54 | 2.50  | 1.69 | 1.72 | 1.36 | 1.28 | 1.31 |
| 31   | 2.10 | ---  | 2.30 | 2.91 | ---  | 4.73 | ---   | 1.67 | ---  | 1.41 | 1.27 | ---  |
| MEAN | 3.10 | 2.07 | 2.55 | 3.86 | 2.38 | 3.82 | 5.36  | 1.99 | 1.68 | 1.45 | 1.45 | 1.39 |
| MAX  | 8.82 | 2.49 | 3.41 | 8.34 | 3.10 | 7.27 | 13.02 | 2.41 | 1.95 | 1.69 | 1.83 | 1.73 |
| MIN  | 1.89 | 1.94 | 1.98 | 2.26 | 2.16 | 2.12 | 2.50  | 1.67 | 1.49 | 1.34 | 1.27 | 1.27 |

02474600 BOGUE HOMO NEAR RICHTON, MS

LOCATION.--Lat 31°24'13", long 89°01'18", in NW1/4 NE1/4 NW1/4 sec.17, T.5 N., R.10 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170005, near right bank at downstream side of bridge on county highway, 0.5 mi upstream from Linda Creek, 1.0 mi downstream from Sweetwater Creek, 3.5 mi upstream from State Highway 42, and 6.0 mi north-west of Richton.

DRAINAGE AREA.--344 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1943, 1955-56, 1965. October 1970 to current year.

REVISED RECORDS.--WDR MS-87-1: 1986 (m).

GAGE.--Water-stage recorder. Elevation of gage is 117 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: May 30 - June 9. Records good except estimated daily discharges, which are poor. Flow slightly regulated by Lake Bogue Homo, 36 mi upstream. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood prior to January 1941, reached a stage of 26 1/2 ft and the flood of Mar. 21, 1943, reached a stage of 25.7 ft at site 3.5 mi downstream at different datum (from information by U. S. Army Corps of Engineers). A discharge of 4.7 ft<sup>3</sup>/s was measured Oct. 16, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,700 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 8 | 0415 | *1,730                            | *6.69               |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 18   | 23   | 16   | 47   | 133  | 144   | 305   | 36    | e9.8  | 9.3   | 9.0   | 4.6   |
| 2     | 17   | 22   | 17   | 48   | 122  | 121   | 212   | 33    | e9.7  | 8.7   | 16    | 4.0   |
| 3     | 16   | 19   | 18   | 49   | 100  | 97    | 187   | 31    | e9.8  | 8.6   | 11    | 4.6   |
| 4     | 16   | 17   | 18   | 62   | 88   | 102   | 746   | 38    | e10   | 7.8   | 8.1   | 3.8   |
| 5     | 19   | 17   | 19   | 84   | 75   | 80    | 1080  | 34    | e9.8  | 7.0   | 7.8   | 3.5   |
| 6     | 17   | 16   | 20   | 270  | 69   | 71    | 1220  | 29    | e9.6  | 7.0   | 7.5   | 3.7   |
| 7     | 15   | 16   | 20   | 365  | 66   | 64    | 1570  | 25    | e9.4  | 6.8   | 7.4   | 3.9   |
| 8     | 18   | 18   | 20   | 438  | 59   | 55    | 1670  | 24    | e9.4  | 6.4   | 8.0   | 4.9   |
| 9     | 231  | 17   | 20   | 491  | 56   | 52    | 1340  | 22    | e9.6  | 5.7   | 9.7   | 5.4   |
| 10    | 251  | 17   | 21   | 455  | 55   | 52    | 627   | 21    | 9.5   | 5.6   | 11    | 5.3   |
| 11    | 199  | 16   | 22   | 624  | 52   | 63    | 205   | 21    | 9.2   | 5.8   | 13    | 5.0   |
| 12    | 209  | 15   | 24   | 790  | 48   | 116   | 140   | 19    | 8.2   | 5.4   | 8.6   | 4.9   |
| 13    | 114  | 15   | 49   | 1020 | 46   | 282   | 124   | 17    | 9.0   | 5.0   | 6.8   | 5.1   |
| 14    | 62   | 15   | 45   | 1270 | 46   | 318   | 163   | 16    | 11    | 5.5   | 6.4   | 6.5   |
| 15    | 44   | 15   | 41   | 1180 | 47   | 271   | 194   | 15    | 16    | 5.3   | 6.5   | 8.7   |
| 16    | 36   | 15   | 43   | 569  | 49   | 179   | 210   | 14    | 12    | 4.8   | 6.3   | 6.2   |
| 17    | 30   | 16   | 38   | 183  | 52   | 134   | 184   | 14    | 12    | 9.6   | 5.7   | 5.1   |
| 18    | 26   | 15   | 45   | 131  | 45   | 109   | 139   | 14    | 14    | 9.0   | 5.2   | 5.0   |
| 19    | 23   | 14   | 79   | 111  | 45   | 256   | 110   | 14    | 13    | 5.5   | 4.6   | 4.7   |
| 20    | 23   | 15   | 70   | 98   | 44   | 576   | 92    | 13    | 12    | 6.1   | 4.6   | 4.6   |
| 21    | 24   | 15   | 86   | 91   | 42   | 707   | 75    | 16    | 19    | 6.7   | 4.4   | 4.5   |
| 22    | 23   | 16   | 89   | 83   | 46   | 698   | 62    | 15    | 15    | 8.1   | 4.3   | 4.7   |
| 23    | 21   | 18   | 90   | 87   | 43   | 743   | 57    | 16    | 12    | 7.2   | 4.2   | 4.7   |
| 24    | 22   | 18   | 82   | 88   | 36   | 794   | 59    | 14    | 11    | 7.3   | 4.1   | 4.5   |
| 25    | 19   | 18   | 66   | 124  | 35   | 542   | 72    | 14    | 13    | 6.3   | 3.9   | 4.4   |
| 26    | 18   | 18   | 56   | 131  | 35   | 294   | 81    | 13    | 9.8   | 5.4   | 3.8   | 4.4   |
| 27    | 17   | 19   | 50   | 112  | 40   | 543   | 71    | 12    | 9.6   | 5.4   | 4.1   | 3.9   |
| 28    | 18   | 18   | 47   | 111  | 45   | 771   | 60    | 12    | 12    | 5.1   | 4.1   | 4.8   |
| 29    | 18   | 18   | 47   | 107  | 101  | 768   | 48    | 11    | 17    | 4.8   | 4.0   | 4.0   |
| 30    | 17   | 17   | 48   | 109  | ---  | 683   | 40    | e10   | 12    | 4.8   | 3.9   | 3.9   |
| 31    | 19   | ---  | 47   | 118  | ---  | 500   | ---   | e9.8  | ---   | 5.8   | 4.1   | ---   |
| TOTAL | 1600 | 508  | 1353 | 9446 | 1720 | 10185 | 11143 | 592.8 | 343.4 | 201.8 | 208.1 | 143.3 |
| MEAN  | 51.6 | 16.9 | 43.6 | 305  | 59.3 | 329   | 371   | 19.1  | 11.4  | 6.51  | 6.71  | 4.78  |
| MAX   | 251  | 23   | 90   | 1270 | 133  | 794   | 1670  | 38    | 19    | 9.6   | 16    | 8.7   |
| MIN   | 15   | 14   | 16   | 47   | 35   | 52    | 40    | 9.8   | 8.2   | 4.8   | 3.8   | 3.5   |
| MED   | 21   | 17   | 45   | 118  | 48   | 256   | 152   | 16    | 10    | 6.1   | 6.3   | 4.6   |
| CFSM  | .15  | .05  | .13  | .89  | .17  | .96   | 1.08  | .06   | .03   | .02   | .02   | .01   |
| IN.   | .17  | .05  | .15  | 1.02 | .19  | 1.10  | 1.20  | .06   | .04   | .02   | .02   | .02   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

|      | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| MEAN | 137  | 247  | 591  | 1058 | 1024 | 1051 | 916  | 535  | 188  | 137  | 82.1 | 147  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| MAX  | 881  | 1284 | 2118 | 2848 | 2545 | 2181 | 2799 | 2359 | 877  | 682  | 537  | 1115 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 1976 | 1987 | 1974 | 1998 | 1990 | 1979 | 1980 | 1991 | 1997 | 1989 | 1975 | 1974 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| MIN  | 10.4 | 12.8 | 26.0 | 87.5 | 59.3 | 295  | 93.7 | 19.1 | 11.4 | 6.51 | 6.71 | 4.78 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 1991 | 1982 | 1988 | 1981 | 2000 | 1986 | 1986 | 2000 | 2000 | 2000 | 2000 | 2000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |

SUMMARY STATISTICS

|                          | FOR 1999 CALENDAR YEAR |        | FOR 2000 WATER YEAR |        | WATER YEARS 1971 - 2000 |             |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL             | 79826                  |        | 37444.4             |        | 507                     |             |
| ANNUAL MEAN              | 219                    |        | 102                 |        | 911                     |             |
| HIGHEST ANNUAL MEAN      |                        |        |                     |        | 102                     | 1974        |
| LOWEST ANNUAL MEAN       |                        |        |                     |        | 102                     | 2000        |
| HIGHEST DAILY MEAN       | 7370                   | Mar 14 | 1670                | Apr 8  | 19900                   | Dec 28 1973 |
| LOWEST DAILY MEAN        | 12                     | Sep 25 | 3.5                 | Sep 5  | 3.5                     | Sep 5 2000  |
| ANNUAL SEVEN-DAY MINIMUM | 13                     | Sep 22 | 4.0                 | Aug 24 | 4.0                     | Aug 24 2000 |
| INSTANTANEOUS PEAK FLOW  |                        |        | 1730                | Apr 8  | 21900                   | Dec 28 1973 |
| INSTANTANEOUS PEAK STAGE |                        |        | 6.69                | Apr 8  | 27.63                   | Dec 28 1973 |
| INSTANTANEOUS LOW FLOW   |                        |        | 3.5                 | Sep 5  | 3.5                     | Sep 5 2000  |
| ANNUAL RUNOFF (CFSM)     | .64                    |        | .30                 |        | 1.47                    |             |
| ANNUAL RUNOFF (INCHES)   | 8.63                   |        | 4.05                |        | 20.02                   |             |
| 10 PERCENT EXCEEDS       | 275                    |        | 237                 |        | 1410                    |             |
| 50 PERCENT EXCEEDS       | 45                     |        | 19                  |        | 146                     |             |
| 90 PERCENT EXCEEDS       | 15                     |        | 4.9                 |        | 17                      |             |

e Estimated

## PASCAGOULA RIVER BASIN

02475000 LEAF RIVER NEAR McLAIN, MS

LOCATION.--Lat 31°06'10", long 88°48'21", in NE1/4 SE1/4 sec.29, T.2 N., R.8 W., St. Stephens Meridian, Greene County, Hydrologic Unit 03170005, on downstream side of right main pier of bridge on U.S. Highway 98, 1.2 mi east of McLain, 1.8 mi downstream from Atkinson Creek, 5.5 mi upstream from Big Oktibee Creek, and 14.6 mi upstream from confluence with Chickasawhay River.

DRAINAGE AREA.--3,495 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 42.15 ft above sea level. Prior to Sept. 8, 1940, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1900 reached a stage of about 32 ft, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 1     | 914   | 947   | 787   | 1100  | 1650  | 1780  | 3470   | 1190  | 623   | 903   | 694   | 425   |
| 2     | 1080  | 1060  | 783   | 1070  | 1620  | 1740  | 2780   | 1130  | 612   | 715   | 687   | 458   |
| 3     | 1040  | 1070  | 783   | 1060  | 1550  | 1660  | 2410   | 1120  | 605   | 656   | 685   | 444   |
| 4     | 887   | 1050  | 782   | 1180  | 1480  | 1560  | 5150   | 1110  | 601   | 610   | 671   | 431   |
| 5     | 761   | 970   | 793   | 2530  | 1400  | 1640  | 11300  | 1060  | 592   | 574   | 694   | 427   |
| 6     | 713   | 881   | 794   | 5180  | 1340  | 1480  | 13200  | 1030  | 595   | 545   | 723   | 426   |
| 7     | 689   | 831   | 794   | 5530  | 1300  | 1340  | 13500  | 1040  | 585   | 528   | 656   | 425   |
| 8     | 689   | 807   | 794   | 4900  | 1270  | 1270  | 13100  | 1020  | 589   | 518   | 589   | 428   |
| 9     | 2060  | 791   | 800   | 3530  | 1240  | 1210  | 9990   | 995   | 591   | 513   | 578   | 458   |
| 10    | 5980  | 784   | 809   | 3000  | 1220  | 1180  | 6840   | 958   | 592   | 512   | 555   | 480   |
| 11    | 5990  | 776   | 817   | 6080  | 1210  | 1190  | 3960   | 936   | 588   | 502   | 677   | 507   |
| 12    | 7840  | 765   | 843   | 6370  | 1190  | 1370  | 2690   | 903   | 569   | 487   | 844   | 492   |
| 13    | 5710  | 757   | 1020  | 4510  | 1170  | 2010  | 2310   | 875   | 558   | 480   | 690   | 574   |
| 14    | 3620  | 750   | 1400  | 3710  | 1150  | 2250  | 2810   | 848   | 556   | 482   | 605   | 576   |
| 15    | 2290  | 743   | 1320  | 3430  | 1140  | 2090  | 4300   | 820   | 564   | 478   | 531   | 669   |
| 16    | 1730  | 730   | 1620  | 2990  | 1150  | 1900  | 4230   | 804   | 577   | 472   | 494   | 591   |
| 17    | 1460  | 721   | 1710  | 2270  | 1150  | 1750  | 3740   | 799   | 708   | 479   | 473   | 516   |
| 18    | 1290  | 719   | 1550  | 1840  | 1140  | 1630  | 2850   | 794   | 716   | 494   | 459   | 471   |
| 19    | 1170  | 723   | 2070  | 1680  | 1130  | 2440  | 2330   | 790   | 685   | 490   | 446   | 448   |
| 20    | 1090  | 727   | 2180  | 1580  | 1120  | 4940  | 2010   | 786   | 731   | 616   | 438   | 433   |
| 21    | 1020  | 731   | 2150  | 1500  | 1110  | 6350  | 1760   | 782   | 773   | 580   | 430   | 426   |
| 22    | 969   | 737   | 2350  | 1450  | 1110  | 6500  | 1590   | 785   | 800   | 593   | 423   | 446   |
| 23    | 927   | 740   | 2180  | 1430  | 1110  | 6310  | 1480   | 787   | 762   | 679   | 416   | 489   |
| 24    | 891   | 749   | 2000  | 1520  | 1120  | 5180  | 1440   | 799   | 710   | 572   | 413   | 453   |
| 25    | 865   | 760   | 1790  | 1680  | 1120  | 4320  | 1640   | 766   | 705   | 504   | 411   | 453   |
| 26    | 840   | 769   | 1560  | 1690  | 1100  | 3280  | 1620   | 730   | 746   | 505   | 419   | 445   |
| 27    | 817   | 783   | 1400  | 1620  | 1150  | 3380  | 1530   | 709   | 810   | 474   | 426   | 441   |
| 28    | 802   | 792   | 1300  | 1550  | 1300  | 5160  | 1430   | 684   | 701   | 516   | 431   | 430   |
| 29    | 791   | 797   | 1220  | 1520  | 1650  | 5320  | 1330   | 667   | 1260  | 466   | 430   | 421   |
| 30    | 785   | 791   | 1170  | 1530  | ---   | 5050  | 1250   | 651   | 1580  | 473   | 423   | 414   |
| 31    | 811   | ---   | 1130  | 1610  | ---   | 4480  | ---    | 634   | ---   | 495   | 419   | ---   |
| TOTAL | 56521 | 24251 | 40699 | 80640 | 36390 | 91760 | 128040 | 27002 | 21084 | 16911 | 16830 | 14097 |
| MEAN  | 1823  | 808   | 1313  | 2601  | 1255  | 2960  | 4268   | 871   | 703   | 546   | 543   | 470   |
| MAX   | 7840  | 1070  | 2350  | 6370  | 1650  | 6500  | 13500  | 1190  | 1580  | 903   | 844   | 669   |
| MIN   | 689   | 719   | 782   | 1060  | 1100  | 1180  | 1250   | 634   | 556   | 466   | 411   | 414   |
| MED   | 969   | 772   | 1220  | 1680  | 1170  | 2010  | 2740   | 804   | 618   | 512   | 494   | 447   |
| CFSM  | .52   | .23   | .38   | .74   | .36   | .85   | 1.22   | .25   | .20   | .16   | .16   | .13   |
| IN.   | .60   | .26   | .43   | .86   | .39   | .98   | 1.36   | .29   | .22   | .18   | .18   | .15   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

|      | MEAN | 1747  | 2901  | 5812  | 8340  | 10190 | 10810 | 9678  | 5980 | 2759  | 2792 | 2069 | 2052 |
|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|------|
| MAX  | 6282 | 13580 | 25930 | 23680 | 30530 | 24300 | 39220 | 25390 | 9260 | 19680 | 5920 | 7901 |      |
| (WY) | 1976 | 1949  | 1962  | 1998  | 1961  | 1948  | 1980  | 1991  | 1959 | 1940  | 1949 | 1979 |      |
| MIN  | 515  | 604   | 879   | 1343  | 1255  | 2362  | 1461  | 871   | 703  | 546   | 543  | 470  |      |
| (WY) | 1964 | 1964  | 1955  | 1956  | 2000  | 1955  | 1963  | 2000  | 2000 | 2000  | 2000 | 2000 |      |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1940 - 2000

|                          |         |        |        |
|--------------------------|---------|--------|--------|
| ANNUAL TOTAL             | 1172770 | 554225 |        |
| ANNUAL MEAN              | 3213    | 1514   | 5404   |
| HIGHEST ANNUAL MEAN      |         |        | 11060  |
| LOWEST ANNUAL MEAN       |         |        | 1514   |
| HIGHEST DAILY MEAN       | 45000   | Feb 1  | 126000 |
| LOWEST DAILY MEAN        | 549     | Sep 26 | 411    |
| ANNUAL SEVEN-DAY MINIMUM | 553     | Sep 22 | 420    |
| INSTANTANEOUS PEAK FLOW  |         |        | 13700  |
| INSTANTANEOUS PEAK STAGE |         |        | 14.31  |
| INSTANTANEOUS LOW FLOW   |         |        | 408    |
| ANNUAL RUNOFF (CFSM)     | .92     |        | 1.55   |
| ANNUAL RUNOFF (INCHES)   | 12.48   |        | 21.01  |
| 10 PERCENT EXCEEDS       | 5430    |        | 13600  |
| 50 PERCENT EXCEEDS       | 1320    |        | 2540   |
| 90 PERCENT EXCEEDS       | 699     |        | 915    |



## 02475500 CHUNKY RIVER NEAR CHUNKY, MS

LOCATION.--Lat 32°19'34", long 88°54'33", in NW1/4 NE1/4 NW1/4 sec.31, T.6 N., R.14 E., Choctaw Meridian, Lauderdale County Hydrologic Unit 03170001, on right bank at downstream side of bridge on U.S. Highway 80, 2,500 ft upstream from Illinois Central and Gulf Railroad bridge, 1.2 mi east of Chunky, 3.2 mi upstream from Tallahatta Creek, and 5.5 mi downstream from Concobona Creek.

DRAINAGE AREA.--369 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1938 to current year. Prior to October 1963, published as Chunky Creek near Chunky.

REVISED RECORDS.--WSP 1724: 1950(M). WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 269.00 ft above sea level. Prior to Mar. 24, 1939, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: March 2-9. Records good except for estimated daily discharges, which are poor. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 5 | 1630 | *4,170                            | *10.70              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL   | AUG   | SEP    |
|-------|------|------|------|------|------|------|-------|------|------|-------|-------|--------|
| 1     | 30   | 18   | 28   | 53   | 149  | 186  | 328   | 64   | 26   | 15    | 4.2   | 1.7    |
| 2     | 29   | 19   | 27   | 64   | 128  | e186 | 309   | 59   | 22   | 14    | 12    | 1.6    |
| 3     | 21   | 21   | 28   | 65   | 108  | e180 | 1500  | 55   | 20   | 13    | 39    | 1.4    |
| 4     | 15   | 21   | 27   | 742  | 96   | e175 | 3080  | 52   | 19   | 12    | 27    | 1.3    |
| 5     | 15   | 21   | 27   | 1070 | 88   | e170 | 3960  | 54   | 19   | 10    | 24    | 1.2    |
| 6     | 16   | 21   | 28   | 671  | 79   | e165 | 2820  | 101  | 20   | 8.6   | 18    | 1.1    |
| 7     | 12   | 21   | 29   | 259  | 73   | e160 | 673   | 228  | 20   | 7.6   | 21    | 1.1    |
| 8     | 11   | 22   | 30   | 190  | 70   | e155 | 458   | 146  | 19   | 7.2   | 15    | 1.1    |
| 9     | 21   | 23   | 31   | 168  | 67   | e151 | 375   | 93   | 18   | 7.5   | 12    | 1.0    |
| 10    | 331  | 24   | 33   | 209  | 64   | 150  | 303   | 74   | 16   | 10    | 10    | 1.0    |
| 11    | 310  | 24   | 35   | 229  | 61   | 151  | 255   | 64   | 15   | 9.2   | 9.5   | .99    |
| 12    | 172  | 24   | 37   | 179  | 61   | 212  | 226   | 56   | 13   | 8.2   | 8.6   | 1.2    |
| 13    | 89   | 23   | 352  | 142  | 61   | 283  | 225   | 50   | 12   | 7.1   | 8.0   | 3.2    |
| 14    | 56   | 24   | 528  | 124  | 61   | 279  | 323   | 46   | 11   | 6.0   | 8.1   | 5.2    |
| 15    | 41   | 25   | 249  | 110  | 60   | 271  | 327   | 41   | 11   | 5.3   | 7.5   | 5.6    |
| 16    | 33   | 25   | 133  | 100  | 59   | 266  | 256   | 37   | 13   | 4.8   | 7.1   | 9.1    |
| 17    | 27   | 25   | 89   | 95   | 59   | 261  | 213   | 36   | 26   | 4.6   | 6.5   | 11     |
| 18    | 23   | 25   | 73   | 90   | 59   | 257  | 182   | 34   | 33   | 4.3   | 6.0   | 11     |
| 19    | 21   | 25   | 76   | 87   | 63   | 338  | 156   | 30   | 29   | 4.0   | 5.6   | 9.7    |
| 20    | 19   | 44   | 87   | 85   | 73   | 957  | 139   | 32   | 36   | 4.4   | 4.9   | 7.7    |
| 21    | 19   | 55   | 103  | 85   | 79   | 913  | 124   | 45   | 31   | 4.4   | 4.4   | 5.5    |
| 22    | 18   | 59   | 125  | 81   | 78   | 569  | 109   | 56   | 26   | 4.1   | 4.1   | 4.5    |
| 23    | 17   | 59   | 124  | 79   | 75   | 426  | 97    | 47   | 21   | 4.0   | 3.7   | 3.7    |
| 24    | 16   | 49   | 103  | 84   | 75   | 360  | 103   | 37   | 18   | 3.5   | 3.3   | 3.3    |
| 25    | 16   | 34   | 81   | 87   | 73   | 316  | 135   | 33   | 16   | 3.1   | 2.9   | 3.1    |
| 26    | 15   | 28   | 69   | 84   | 73   | 283  | 133   | 29   | 16   | 2.8   | 2.6   | 2.9    |
| 27    | 16   | 28   | 62   | 76   | 83   | 326  | 107   | 28   | 20   | 2.5   | 2.4   | 2.6    |
| 28    | 17   | 29   | 57   | 75   | 150  | 428  | 89    | 31   | 27   | 2.1   | 2.2   | 2.3    |
| 29    | 17   | 30   | 54   | 107  | 183  | 426  | 76    | 49   | 23   | 2.2   | 2.1   | 2.2    |
| 30    | 17   | 29   | 51   | 164  | ---  | 391  | 70    | 39   | 17   | 4.7   | 2.0   | 2.1    |
| 31    | 16   | ---  | 51   | 170  | ---  | 367  | ---   | 30   | ---  | 4.8   | 1.8   | ---    |
| TOTAL | 1476 | 875  | 2827 | 5824 | 2408 | 9758 | 17151 | 1776 | 613  | 201.0 | 285.5 | 109.39 |
| MEAN  | 47.6 | 29.2 | 91.2 | 188  | 83.0 | 315  | 572   | 57.3 | 20.4 | 6.48  | 9.21  | 3.65   |
| MAX   | 331  | 59   | 528  | 1070 | 183  | 957  | 3960  | 228  | 36   | 15    | 39    | 11     |
| MIN   | 11   | 18   | 27   | 53   | 59   | 150  | 70    | 28   | 11   | 2.1   | 1.8   | .99    |
| CFSM  | .13  | .08  | .25  | .51  | .23  | .85  | 1.55  | .16  | .06  | .02   | .02   | .01    |
| IN.   | .15  | .09  | .28  | .59  | .24  | .98  | 1.73  | .18  | .06  | .02   | .03   | .01    |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

|      | MEAN | 79.2 | 272  | 534  | 864  | 1078 | 1118 | 962  | 453  | 191  | 215  | 117  | 87.7 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 589  | 1854 | 2741 | 2608 | 3449 | 2890 | 2850 | 2072 | 617  | 1671 | 725  | 751  |      |
| (WY) | 1978 | 1949 | 1962 | 1998 | 1990 | 1980 | 1979 | 1991 | 1983 | 1940 | 1975 | 1979 |      |
| MIN  | 4.01 | 16.8 | 74.0 | 143  | 83.0 | 185  | 113  | 41.5 | 18.3 | 6.48 | 9.21 | 3.08 |      |
| (WY) | 1964 | 1964 | 1939 | 1956 | 2000 | 1955 | 1967 | 1963 | 1988 | 2000 | 2000 | 1954 |      |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1938 - 2000

|                          |         |          |       |
|--------------------------|---------|----------|-------|
| ANNUAL TOTAL             | 92941.0 | 43303.89 |       |
| ANNUAL MEAN              | 255     | 118      | 496   |
| HIGHEST ANNUAL MEAN      |         |          | 1028  |
| LOWEST ANNUAL MEAN       |         |          | 118   |
| HIGHEST DAILY MEAN       | 8850    | Feb 1    | 26400 |
| LOWEST DAILY MEAN        | 7.5     | Sep 28   | .99   |
| ANNUAL SEVEN-DAY MINIMUM | 8.5     | Sep 22   | 1.1   |
| INSTANTANEOUS PEAK FLOW  |         |          | 4170  |
| INSTANTANEOUS PEAK STAGE |         |          | 10.70 |
| INSTANTANEOUS LOW FLOW   |         |          | .99   |
| ANNUAL RUNOFF (CFSM)     | .69     | .32      | 1.34  |
| ANNUAL RUNOFF (INCHES)   | 9.37    | 4.37     | 18.26 |
| 10 PERCENT EXCEEDS       | 488     | 262      | 1240  |
| 50 PERCENT EXCEEDS       | 51      | 33       | 157   |
| 90 PERCENT EXCEEDS       | 14      | 3.9      | 24    |

e Estimated

LOCATION.--Lat 32°22'02", long 88°40'37", in NE1/4 sec. 7, T.6 N., R.16 E., Choctaw Meridian, Lauderdale County, Hydrologic Unit 03170001, at Bonita Road bridge, 0.6 mi downstream from Southern Railway System bridge, and 9.4 mi upstream from mouth.

PERIOD OF RECORD.--October 1950 to current year.

GAGE. - Water-stage recorder. Datum of gage is 300.00 ft above sea level. From Oct. 20, 1950 to Nov 13, 1959, at Highway 80 and 11 0.4 mi upstream at datum 8.95 ft higher. From Nov. 13, 1959 to Dec. 13, 1990, at Highway 39 and 19 0.1 mi upstream at datum 5.95 ft higher. From Dec. 13, 1990, to Nov. 19, 1992, at Highway 80 and 11 0.4 mi upstream at datum 5.95 ft higher.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 35.4 ft in February 1936, at site 0.6 mi upstream at present datum, from information by Southern Railway Company. Flood of Mar. 31, 1949, reached a stage of 32.6 ft at site 0.6 mi upstream at present datum, from information by Southern Railway Company. Flood of Apr. 8, 1938, reached a stage of 32 ft at site 0.4 mi upstream at present datum, from information by National Weather Service. The flood of Feb. 21, 1961, reached a stage 6.7 ft lower than that of the flood in February 1936, at site 0.6 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000. BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 19.2 | 28.2 | 77.1 | 110  | 138  | 163  | 124  | 56.1 | 31.0 | 31.4 | 18.7 | 15.4 |
| MAX  | 147  | 147  | 448  | 393  | 464  | 438  | 505  | 234  | 197  | 252  | 92.7 | 157  |
| (WY) | 1990 | 1980 | 1962 | 1993 | 1961 | 1976 | 1964 | 1980 | 1989 | 1958 | 1982 | 1979 |
| MIN  | .55  | 1.03 | 5.63 | 7.07 | 11.1 | 26.2 | 6.09 | 5.95 | 3.27 | .96  | .74  | .48  |
| (WY) | 1955 | 1957 | 1955 | 1956 | 2000 | 2000 | 1986 | 1999 | 1988 | 2000 | 1954 | 1954 |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR |        | FOR 2000 WATER YEAR |         | WATER YEARS 1951 - 2000 |             |
|--------------------------|------------------------|--------|---------------------|---------|-------------------------|-------------|
| ANNUAL TOTAL             | 12739.50               |        | 5107.95             |         |                         |             |
| ANNUAL MEAN              | 34.9                   |        | 14.0                |         | 67.4                    |             |
| HIGHEST ANNUAL MEAN      |                        |        |                     |         | 130                     |             |
| LOWEST ANNUAL MEAN       |                        |        |                     |         | 14.0                    |             |
| HIGHEST DAILY MEAN       | 785                    | Jan 30 | 551                 | Apr 3   | 5770                    | Apr 6 1964  |
| LOWEST DAILY MEAN        | .70                    | Sep 27 | .17                 | Jul 15  | .17                     | Jul 15 2000 |
| ANNUAL SEVEN-DAY MINIMUM | .74                    | Sep 22 | .17                 | Aug 31  | .17                     | Aug 31 2000 |
| INSTANTANEOUS PEAK FLOW  |                        |        | 704                 | Apr 3   | 9530                    | Apr 6 1964  |
| INSTANTANEOUS PEAK STAGE |                        |        | 6.77                | Apr 3   | 32.04                   | Mar 28 1951 |
| INSTANTANEOUS LOW FLOW   |                        |        | .16                 | Jul 26a | .16                     | Jul 26 2000 |
| ANNUAL RUNOFF (CFSM)     | .67                    |        | .27                 |         | 1.29                    |             |
| ANNUAL RUNOFF (INCHES)   | 9.10                   |        | 3.65                |         | 17.57                   |             |
| 10 PERCENT EXCEEDS       | 79                     |        | 28                  |         | 136                     |             |
| 50 PERCENT EXCEEDS       | 6.8                    |        | 4.4                 |         | 18                      |             |
| 90 PERCENT EXCEEDS       | 2.2                    |        | .25                 |         | 2.3                     |             |

a Also occurred on Sept. 5, 6.

## PASCAGOULA RIVER BASIN

77

## 02476600 OKATIBBEE CREEK AT ARUNDEL, MS

LOCATION.--Lat 32°15'54", long 88°45'13", in SE1/4 SE1/4 SW1/4 sec.3, T.5 N., R.15 E., Choctaw Meridian, Lauderdale County, Hydrologic Unit 03170001, on right bank, about 500 ft downstream from Hognose Creek, about 200 ft upstream from bridge on county road, 0.6 mi southeast of Arundel, and at mi 16.3.

DRAINAGE AREA.--342 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1968 to current year. Daily mean gage heights published since October 1971.

GAGE.--Water-stage recorder. Datum of gage is 259.04 ft above sea level (U. S. Army Corps of Engineers bench mark) Prior to Apr. 17, 1975, supplementary water-stage recorder at bridge 400 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 17-20, Apr. 29-30, and May 1-2. Records good except for estimated discharges, which are poor. Flow from 154 mi<sup>2</sup> above the station, 21.3 mi upstream, regulated by Okatibbee Lake since November 1968. Telemeter, satellite telemeter, and U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1961 reached a stage of 22.2 ft at county road bridge 400 ft downstream (from information by U. S. Army Corps of Engineers).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1     | 53   | 57   | 35   | 83   | 126  | 80   | 125   | e100 | 62   | 67   | 39   | 29   |
| 2     | 49   | 49   | 35   | 81   | 117  | 71   | 323   | e86  | 61   | 62   | 43   | 28   |
| 3     | 47   | 44   | 35   | 85   | 114  | 69   | 1760  | 84   | 60   | 60   | 37   | 28   |
| 4     | 58   | 48   | 35   | 461  | 110  | 69   | 2270  | 86   | 59   | 58   | 39   | 28   |
| 5     | 62   | 63   | 36   | 380  | 104  | 67   | 1110  | 87   | 66   | 57   | 67   | 27   |
| 6     | 51   | 65   | 37   | 235  | 101  | 65   | 599   | 89   | 66   | 57   | 39   | 27   |
| 7     | 46   | 63   | 35   | 228  | 97   | 66   | 637   | 91   | 63   | 56   | 38   | 30   |
| 8     | 46   | 64   | 35   | 212  | 94   | 67   | 651   | 85   | 62   | 56   | 36   | 31   |
| 9     | 346  | 63   | 36   | 230  | 74   | 64   | 600   | 82   | 60   | 55   | 35   | 31   |
| 10    | 1090 | 62   | 40   | 558  | 68   | 65   | 563   | 80   | 59   | 55   | 35   | 29   |
| 11    | 317  | 64   | 40   | 341  | 68   | 145  | 396   | 79   | 58   | 52   | 116  | 29   |
| 12    | 117  | 62   | 41   | 264  | 70   | 119  | 272   | 77   | 59   | 53   | 50   | 90   |
| 13    | 81   | 62   | 716  | 246  | 68   | 92   | 276   | 70   | 59   | 51   | 39   | 325  |
| 14    | 69   | 60   | 237  | 240  | 68   | 79   | 276   | 68   | 59   | 50   | 35   | 186  |
| 15    | 63   | 61   | 95   | 223  | 65   | 76   | 277   | 66   | 60   | 48   | 33   | 42   |
| 16    | 59   | 61   | 69   | 216  | 64   | 75   | 271   | 65   | 146  | 48   | 32   | 36   |
| 17    | 57   | 61   | e58  | 211  | 62   | 77   | 253   | 65   | 129  | 58   | 32   | 32   |
| 18    | 54   | 62   | e80  | 211  | 61   | 89   | 236   | 65   | 84   | 49   | 31   | 31   |
| 19    | 52   | 61   | e140 | 218  | 84   | 612  | 225   | 64   | 401  | 48   | 30   | 31   |
| 20    | 49   | 59   | e270 | 224  | 70   | 698  | 221   | 72   | 403  | 49   | 30   | 31   |
| 21    | 47   | 50   | 217  | 211  | 65   | 291  | 211   | 466  | 108  | 71   | 29   | 31   |
| 22    | 47   | 49   | 149  | 174  | 63   | 182  | 203   | 106  | 84   | 50   | 29   | 33   |
| 23    | 45   | 47   | 114  | 149  | 62   | 144  | 199   | 78   | 74   | 48   | 30   | 31   |
| 24    | 46   | 38   | 95   | 126  | 61   | 122  | 249   | 73   | 69   | 47   | 30   | 31   |
| 25    | 45   | 37   | 86   | 116  | 62   | 111  | 227   | 72   | 65   | 46   | 30   | 30   |
| 26    | 45   | 38   | 82   | 110  | 61   | 132  | 173   | 69   | 70   | 44   | 31   | 29   |
| 27    | 44   | 37   | 80   | 105  | 222  | 181  | 135   | 69   | 149  | 38   | 30   | 29   |
| 28    | 43   | 37   | 80   | 162  | 124  | 161  | 129   | 123  | 88   | 43   | 28   | 29   |
| 29    | 44   | 36   | 78   | 216  | 90   | 145  | e120  | 74   | 166  | 38   | 29   | 29   |
| 30    | 45   | 34   | 78   | 175  | ---  | 149  | e110  | 69   | 79   | 54   | 29   | 27   |
| 31    | 43   | ---  | 78   | 142  | ---  | 129  | ---   | 65   | ---  | 53   | 29   | ---  |
| TOTAL | 3260 | 1594 | 3242 | 6633 | 2495 | 4492 | 13097 | 2825 | 3028 | 1621 | 1160 | 1420 |
| MEAN  | 105  | 53.1 | 105  | 214  | 86.0 | 145  | 437   | 91.1 | 101  | 52.3 | 37.4 | 47.3 |
| MAX   | 1090 | 65   | 716  | 558  | 222  | 698  | 2270  | 466  | 403  | 71   | 116  | 325  |
| MIN   | 43   | 34   | 35   | 81   | 61   | 64   | 110   | 64   | 58   | 38   | 28   | 27   |
| CFSM  | .31  | .16  | .31  | .63  | .25  | .42  | 1.28  | .27  | .30  | .15  | .11  | .14  |
| IN.   | .35  | .17  | .35  | .72  | .27  | .49  | 1.42  | .31  | .33  | .18  | .13  | .15  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000, BY WATER YEAR (WY)

|      | MEAN | 131  | 295  | 531  | 812  | 1014 | 1075 | 930  | 528  | 269  | 225  | 162  | 156 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 429  | 942  | 1569 | 2314 | 3160 | 2295 | 2359 | 1977 | 1275 | 1003 | 408  | 565  |     |
| (WY) | 1971 | 1993 | 1983 | 1998 | 1990 | 1979 | 1980 | 1991 | 1983 | 1989 | 1975 | 1979 |     |
| MIN  | 31.2 | 33.4 | 82.0 | 118  | 86.0 | 145  | 124  | 84.6 | 42.8 | 52.3 | 37.4 | 47.3 |     |
| (WY) | 1970 | 1979 | 1988 | 1988 | 2000 | 2000 | 1986 | 1999 | 1970 | 2000 | 2000 | 2000 |     |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1969 - 2000

| ANNUAL TOTAL             | 103920 | 44867  |       |
|--------------------------|--------|--------|-------|
| ANNUAL MEAN              | 285    | 123    | 508   |
| HIGHEST ANNUAL MEAN      |        |        | 1022  |
| LOWEST ANNUAL MEAN       |        |        | 123   |
| HIGHEST DAILY MEAN       | 4140   | Jan 31 | 18700 |
| LOWEST DAILY MEAN        | 34     | Nov 30 | 19    |
| ANNUAL SEVEN-DAY MINIMUM | 35     | Nov 29 | 22    |
| INSTANTANEOUS PEAK FLOW  |        |        | 22800 |
| INSTANTANEOUS PEAK STAGE |        |        | 22.65 |
| ANNUAL RUNOFF (CFSM)     | .83    |        | 1.48  |
| ANNUAL RUNOFF (INCHES)   | 11.30  |        | 20.18 |
| 10 PERCENT EXCEEDS       | 853    | 238    | 1350  |
| 50 PERCENT EXCEEDS       | 80     | 65     | 199   |
| 90 PERCENT EXCEEDS       | 45     | 31     | 60    |

e Estimated

## PASCAGOULA RIVER BASIN

02476600 OKATIBBEE CREEK AT ARUNDEL, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1    | 3.33 | 3.39 | 3.03 | 3.75 | 4.18 | 3.66 | 3.98  | ---  | 3.22 | 3.30 | 2.92 | 2.73 |
| 2    | 3.26 | 3.28 | 3.04 | 3.72 | 4.10 | 3.54 | 5.28  | ---  | 3.21 | 3.22 | 3.00 | 2.73 |
| 3    | 3.21 | 3.19 | 3.02 | 3.77 | 4.07 | 3.50 | 11.85 | 3.62 | 3.20 | 3.20 | 2.89 | 2.71 |
| 4    | 3.40 | 3.24 | 3.02 | 6.14 | 4.03 | 3.49 | 13.90 | 3.63 | 3.17 | 3.17 | 2.92 | 2.71 |
| 5    | 3.47 | 3.51 | 3.04 | 5.74 | 3.97 | 3.46 | 9.04  | 3.64 | 3.27 | 3.16 | 3.37 | 2.70 |
| 6    | 3.30 | 3.54 | 3.06 | 5.03 | 3.93 | 3.43 | 6.58  | 3.66 | 3.27 | 3.16 | 2.94 | 2.71 |
| 7    | 3.21 | 3.51 | 3.03 | 4.98 | 3.90 | 3.44 | 6.76  | 3.69 | 3.22 | 3.14 | 2.91 | 2.76 |
| 8    | 3.21 | 3.53 | 3.02 | 4.86 | 3.85 | 3.44 | 6.82  | 3.60 | 3.20 | 3.14 | 2.86 | 2.80 |
| 9    | 5.45 | 3.53 | 3.05 | 4.98 | 3.62 | 3.39 | 6.59  | 3.57 | 3.17 | 3.13 | 2.85 | 2.79 |
| 10   | 9.11 | 3.51 | 3.12 | 6.56 | 3.54 | 3.40 | 6.41  | 3.55 | 3.15 | 3.14 | 2.86 | 2.76 |
| 11   | 5.43 | 3.53 | 3.11 | 5.60 | 3.54 | 4.26 | 5.69  | 3.54 | 3.14 | 3.10 | 3.87 | 2.74 |
| 12   | 4.12 | 3.51 | 3.13 | 5.19 | 3.57 | 4.02 | 5.08  | 3.49 | 3.15 | 3.11 | 3.14 | 3.23 |
| 13   | 3.73 | 3.50 | 7.35 | 5.08 | 3.53 | 3.73 | 5.10  | 3.40 | 3.14 | 3.08 | 2.95 | 5.05 |
| 14   | 3.57 | 3.48 | 5.03 | 5.04 | 3.54 | 3.58 | 5.11  | 3.37 | 3.15 | 3.07 | 2.85 | 4.29 |
| 15   | 3.48 | 3.49 | 3.93 | 4.93 | 3.49 | 3.53 | 5.11  | 3.34 | 3.16 | 3.03 | 2.82 | 3.02 |
| 16   | 3.42 | 3.50 | 3.60 | 4.87 | 3.47 | 3.51 | 5.08  | 3.32 | 4.10 | 3.04 | 2.79 | 2.89 |
| 17   | 3.38 | 3.50 | ---  | 4.84 | 3.45 | 3.54 | 4.97  | 3.31 | 3.89 | 3.21 | 2.79 | 2.81 |
| 18   | 3.34 | 3.51 | ---  | 4.84 | 3.44 | 3.66 | 4.87  | 3.31 | 3.47 | 3.07 | 2.77 | 2.78 |
| 19   | 3.29 | 3.51 | ---  | 4.88 | 3.75 | 6.59 | 4.80  | 3.29 | 5.11 | 3.04 | 2.75 | 2.78 |
| 20   | 3.25 | 3.47 | ---  | 4.92 | 3.57 | 7.06 | 4.78  | 3.39 | 5.48 | 3.07 | 2.74 | 2.77 |
| 21   | 3.22 | 3.33 | 4.87 | 4.83 | 3.49 | 5.17 | 4.71  | 5.86 | 3.74 | 3.39 | 2.73 | 2.78 |
| 22   | 3.23 | 3.30 | 4.43 | 4.56 | 3.46 | 4.49 | 4.65  | 3.80 | 3.48 | 3.09 | 2.73 | 2.83 |
| 23   | 3.19 | 3.27 | 4.10 | 4.38 | 3.44 | 4.18 | 4.63  | 3.48 | 3.36 | 3.06 | 2.74 | 2.78 |
| 24   | 3.20 | 3.09 | 3.91 | 4.18 | 3.43 | 3.98 | 4.95  | 3.41 | 3.29 | 3.04 | 2.75 | 2.76 |
| 25   | 3.18 | 3.08 | 3.81 | 4.08 | 3.43 | 3.87 | 4.82  | 3.40 | 3.24 | 3.04 | 2.76 | 2.75 |
| 26   | 3.18 | 3.10 | 3.75 | 4.02 | 3.42 | 4.04 | 4.43  | 3.34 | 3.30 | 3.01 | 2.78 | 2.73 |
| 27   | 3.17 | 3.07 | 3.72 | 3.96 | 4.83 | 4.44 | 4.13  | 3.34 | 4.13 | 2.89 | 2.75 | 2.72 |
| 28   | 3.16 | 3.07 | 3.72 | 4.45 | 4.14 | 4.30 | 4.07  | 3.90 | 3.56 | 2.99 | 2.72 | 2.72 |
| 29   | 3.16 | 3.07 | 3.71 | 4.88 | 3.79 | 4.15 | ---   | 3.42 | 4.22 | 2.88 | 2.73 | 2.70 |
| 30   | 3.19 | 3.03 | 3.70 | 4.58 | ---  | 4.19 | ---   | 3.34 | 3.45 | 3.12 | 2.74 | 2.67 |
| 31   | 3.15 | ---  | 3.69 | 4.32 | ---  | 4.03 | ---   | 3.28 | ---  | 3.16 | 2.73 | ---  |
| MEAN | 3.64 | 3.35 | ---  | 4.77 | 3.72 | 4.03 | ---   | ---  | 3.52 | 3.10 | 2.88 | 2.91 |
| MAX  | 9.11 | 3.54 | ---  | 6.56 | 4.83 | 7.06 | ---   | ---  | 5.48 | 3.39 | 3.87 | 5.05 |
| MIN  | 3.15 | 3.03 | ---  | 3.72 | 3.42 | 3.39 | ---   | ---  | 3.14 | 2.88 | 2.72 | 2.67 |

## 02477000 CHICKASAWHAY RIVER AT ENTERPRISE, MS

LOCATION.--Lat 32°10'33", long 88°49'11", in SE1/4 SE1/4 NW1/4 sec.24, T.4 N., R.14 E., Choctaw Meridian, Clarke County, Hydrologic Unit 03170002, on right bank at downstream side of bridge on State Highway 513 in Enterprise, 0.5 mi downstream from confluence of Chunky River and Okatibbee Creek, and at mile 158.2.

DRAINAGE AREA.--918 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1938 to current year. Daily mean gage heights published since January 1972. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1334: 1953. WRD Miss. 1966: 1965. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 207.62 ft above sea level. Prior to Jan. 6, 1939, National Weather Service nonrecording gage. Prior to Oct. 1, 1966, at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 24-28 and Sept. 25. Records good except for estimated daily discharge, which is poor. Flow from 154 mi<sup>2</sup> above the station, 38.4 mi upstream, regulated by Okatibbee Lake since November 1968. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1900 reached a stage of 42.2 ft present datum, from floodmark (from reports of National Weather Service).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 4 | 0630 | *6,960                            | *21.52              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN   | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|-------|------|-------|-------|------|------|------|------|------|
| 1     | 136  | 91   | 86   | 197   | 386  | 311   | 517   | 216  | 119  | 121  | 92   | 39   |
| 2     | 116  | 102  | 85   | 191   | 339  | 263   | 746   | 209  | 111  | 107  | 83   | 38   |
| 3     | 101  | 89   | 88   | 232   | 312  | 234   | 3850  | 202  | 107  | 100  | 150  | 37   |
| 4     | 91   | 87   | 87   | 1720  | 294  | 227   | 6840  | 196  | 104  | 94   | 124  | 36   |
| 5     | 103  | 97   | 89   | 1980  | 278  | 213   | 6110  | 206  | 108  | 90   | 138  | 35   |
| 6     | 104  | 108  | 89   | 1230  | 265  | 201   | 4420  | 287  | 124  | 89   | 111  | 34   |
| 7     | 91   | 112  | 90   | 655   | 260  | 191   | 1830  | 457  | 112  | 88   | 106  | 37   |
| 8     | 87   | 109  | 89   | 521   | 253  | 191   | 1240  | 348  | 106  | 94   | 93   | 38   |
| 9     | 310  | 113  | 93   | 521   | 236  | 186   | 1040  | 258  | 104  | 91   | 82   | 41   |
| 10    | 1740 | 117  | 106  | 853   | 219  | 184   | 919   | 221  | 100  | 89   | 76   | 42   |
| 11    | 1090 | 113  | 111  | 818   | 213  | 309   | 774   | 201  | 96   | 92   | 119  | 40   |
| 12    | 463  | 113  | 114  | 592   | 216  | 445   | 615   | 190  | 94   | 86   | 123  | 54   |
| 13    | 274  | 111  | 848  | 497   | 214  | 460   | 585   | 172  | 96   | 84   | 83   | 163  |
| 14    | 196  | 110  | 1090 | 461   | 214  | 335   | 699   | 158  | 96   | 83   | 73   | 318  |
| 15    | 158  | 109  | 530  | 429   | 208  | 275   | 711   | 149  | 128  | 78   | 68   | 94   |
| 16    | 134  | 111  | 295  | 401   | 200  | 251   | 624   | 142  | 209  | 76   | 63   | 62   |
| 17    | 121  | 110  | 208  | 383   | 201  | 248   | 548   | 137  | 203  | 84   | 59   | 61   |
| 18    | 111  | 110  | 180  | 373   | 203  | 318   | 486   | 133  | 207  | 82   | 56   | 53   |
| 19    | 102  | 113  | 230  | 372   | 229  | 1220  | 440   | 130  | 142  | 78   | 53   | 48   |
| 20    | 99   | 117  | 224  | 381   | 257  | 2360  | 406   | 149  | 681  | 75   | 51   | 46   |
| 21    | 92   | 133  | 374  | 372   | 247  | 1570  | 385   | 1330 | 224  | 97   | 49   | 46   |
| 22    | 90   | 129  | 395  | 362   | 226  | 907   | 354   | 358  | 158  | 107  | 47   | 51   |
| 23    | 87   | 130  | 324  | 341   | 209  | 652   | 336   | 223  | 134  | 82   | 46   | 48   |
| 24    | 85   | e122 | 273  | 318   | 198  | 527   | 400   | 174  | 117  | 78   | 46   | 45   |
| 25    | 83   | e114 | 232  | 296   | 192  | 452   | 429   | 153  | 110  | 75   | 45   | e42  |
| 26    | 81   | e107 | 211  | 277   | 192  | 581   | 395   | 145  | 104  | 74   | 45   | 40   |
| 27    | 80   | e101 | 212  | 260   | 375  | 883   | 303   | 132  | 190  | 70   | 46   | 39   |
| 28    | 80   | e95  | 202  | 298   | 464  | 891   | 268   | 168  | 193  | 68   | 49   | 39   |
| 29    | 79   | 90   | 187  | 467   | 409  | 676   | 244   | 163  | 233  | 71   | 45   | 38   |
| 30    | 80   | 89   | 185  | 522   | ---  | 628   | 229   | 144  | 162  | 76   | 42   | 37   |
| 31    | 82   | ---  | 180  | 459   | ---  | 598   | ---   | 131  | ---  | 129  | 41   | ---  |
| TOTAL | 6546 | 3252 | 7507 | 16779 | 7509 | 16787 | 36743 | 7282 | 4672 | 2708 | 2304 | 1741 |
| MEAN  | 211  | 108  | 242  | 541   | 259  | 542   | 1225  | 235  | 156  | 87.4 | 74.3 | 58.0 |
| MAX   | 1740 | 133  | 1090 | 1980  | 464  | 2360  | 6840  | 1330 | 681  | 129  | 150  | 318  |
| MIN   | 79   | 87   | 85   | 191   | 192  | 184   | 229   | 130  | 94   | 68   | 41   | 34   |
| CFSM  | .23  | .12  | .26  | .59   | .28  | .59   | 1.33  | .26  | .17  | .10  | .08  | .06  |
| IN.   | .27  | .13  | .30  | .68   | .30  | .68   | 1.49  | .30  | .19  | .11  | .09  | .07  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

|      | MEAN | 258  | 641  | 1322 | 2057 | 2686 | 2794 | 2448 | 1219 | 531  | 585  | 348  | 273 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 1310 | 4011 | 7012 | 6699 | 9250 | 6415 | 6793 | 5644 | 2200 | 4494 | 1518 | 1654 |     |
| (WY) | 1978 | 1949 | 1962 | 1998 | 1990 | 1980 | 1979 | 1991 | 1983 | 1940 | 1946 | 1979 |     |
| MIN  | 23.5 | 49.4 | 174  | 286  | 259  | 540  | 310  | 125  | 101  | 50.9 | 42.7 | 24.8 |     |
| (WY) | 1964 | 1964 | 1964 | 1956 | 2000 | 1955 | 1967 | 1963 | 1988 | 1952 | 1954 | 1954 |     |

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1938 - 2000

|                          | 263948 | 113830 | 1256  |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 263948 | 113830 | 1256  |
| ANNUAL MEAN              | 723    | 311    | 2633  |
| HIGHEST ANNUAL MEAN      |        |        | 311   |
| LOWEST ANNUAL MEAN       |        |        | 2000  |
| HIGHEST DAILY MEAN       | 13500  | Feb 1  | 58500 |
| LOWEST DAILY MEAN        | 71     | Sep 23 | 18    |
| ANNUAL SEVEN-DAY MINIMUM | 72     | Sep 22 | 18    |
| INSTANTANEOUS PEAK FLOW  |        |        | 61700 |
| INSTANTANEOUS PEAK STAGE |        |        | 42.94 |
| INSTANTANEOUS LOW FLOW   |        |        | 18    |
| ANNUAL RUNOFF (CFSM)     | .79    |        | 1.37  |
| ANNUAL RUNOFF (INCHES)   | 10.70  |        | 18.59 |
| 10 PERCENT EXCEEDS       | 1730   | 594    | 3130  |
| 50 PERCENT EXCEEDS       | 211    | 147    | 468   |
| 90 PERCENT EXCEEDS       | 85     | 53     | 94    |

e Estimated



## PASCAGOULA RIVER BASIN

02477000 CHICKASAWHAY RIVER AT ENTERPRISE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN   | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|-------|------|-------|-------|------|------|------|------|------|
| 1    | 4.58 | 4.28 | 4.31 | 5.19  | 5.99 | 5.65  | 6.34  | 5.13 | 4.44 | 4.46 | 4.19 | 3.81 |
| 2    | 4.41 | 4.40 | 4.30 | 5.15  | 5.78 | 5.40  | 7.09  | 5.09 | 4.37 | 4.33 | 4.09 | 3.80 |
| 3    | 4.28 | 4.27 | 4.33 | 5.34  | 5.65 | 5.24  | 14.96 | 5.05 | 4.33 | 4.27 | 4.67 | 3.79 |
| 4    | 4.18 | 4.25 | 4.32 | 9.97  | 5.56 | 5.20  | 21.32 | 5.01 | 4.31 | 4.21 | 4.48 | 3.77 |
| 5    | 4.30 | 4.36 | 4.34 | 10.62 | 5.48 | 5.11  | 19.97 | 5.07 | 4.34 | 4.17 | 4.60 | 3.77 |
| 6    | 4.31 | 4.47 | 4.34 | 8.63  | 5.41 | 5.04  | 16.49 | 5.53 | 4.48 | 4.16 | 4.38 | 3.77 |
| 7    | 4.19 | 4.50 | 4.35 | 6.98  | 5.39 | 4.97  | 10.21 | 6.28 | 4.38 | 4.15 | 4.35 | 3.82 |
| 8    | 4.14 | 4.47 | 4.34 | 6.53  | 5.35 | 4.98  | 8.67  | 5.82 | 4.32 | 4.21 | 4.24 | 3.86 |
| 9    | 5.48 | 4.52 | 4.38 | 6.53  | 5.25 | 4.94  | 8.12  | 5.37 | 4.30 | 4.18 | 4.13 | 3.90 |
| 10   | 9.98 | 4.55 | 4.50 | 7.56  | 5.15 | 4.93  | 7.78  | 5.16 | 4.27 | 4.16 | 4.08 | 3.92 |
| 11   | 8.25 | 4.52 | 4.55 | 7.48  | 5.11 | 5.62  | 7.36  | 5.04 | 4.23 | 4.19 | 4.46 | 3.89 |
| 12   | 6.31 | 4.52 | 4.58 | 6.77  | 5.13 | 6.23  | 6.85  | 4.97 | 4.21 | 4.13 | 4.54 | 4.06 |
| 13   | 5.47 | 4.51 | 7.54 | 6.44  | 5.12 | 6.29  | 6.75  | 4.85 | 4.23 | 4.10 | 4.19 | 5.06 |
| 14   | 5.04 | 4.50 | 8.44 | 6.30  | 5.12 | 5.76  | 7.13  | 4.75 | 4.23 | 4.09 | 4.08 | 5.90 |
| 15   | 4.78 | 4.49 | 6.72 | 6.17  | 5.08 | 5.47  | 7.17  | 4.68 | 4.48 | 4.05 | 4.04 | 4.53 |
| 16   | 4.61 | 4.51 | 5.74 | 6.06  | 5.03 | 5.34  | 6.88  | 4.63 | 5.08 | 4.02 | 3.98 | 4.19 |
| 17   | 4.51 | 4.51 | 5.26 | 5.98  | 5.04 | 5.32  | 6.62  | 4.59 | 5.05 | 4.10 | 3.95 | 4.18 |
| 18   | 4.43 | 4.51 | 5.08 | 5.94  | 5.05 | 5.65  | 6.40  | 4.55 | 5.07 | 4.09 | 3.91 | 4.07 |
| 19   | 4.36 | 4.54 | 5.39 | 5.93  | 5.21 | 8.45  | 6.22  | 4.54 | 4.63 | 4.04 | 3.88 | 4.00 |
| 20   | 4.33 | 4.58 | 5.36 | 5.97  | 5.37 | 11.63 | 6.08  | 4.63 | 6.95 | 4.01 | 3.87 | 3.96 |
| 21   | 4.27 | 4.72 | 6.09 | 5.93  | 5.31 | 9.42  | 5.99  | 8.89 | 5.17 | 4.23 | 3.84 | 3.96 |
| 22   | 4.25 | 4.69 | 6.21 | 5.89  | 5.19 | 7.57  | 5.85  | 5.85 | 4.75 | 4.32 | 3.83 | 4.04 |
| 23   | 4.22 | 4.69 | 5.89 | 5.79  | 5.09 | 6.80  | 5.77  | 5.17 | 4.56 | 4.09 | 3.83 | 4.00 |
| 24   | 4.20 | ---  | 5.64 | 5.68  | 5.02 | 6.38  | 6.05  | 4.86 | 4.42 | 4.04 | 3.83 | 3.94 |
| 25   | 4.19 | ---  | 5.41 | 5.58  | 4.98 | 6.10  | 6.17  | 4.71 | 4.36 | 4.01 | 3.83 | ---  |
| 26   | 4.16 | ---  | 5.28 | 5.48  | 4.98 | 6.50  | 6.03  | 4.65 | 4.30 | 4.01 | 3.84 | 3.88 |
| 27   | 4.16 | ---  | 5.29 | 5.38  | 5.90 | 7.51  | 5.61  | 4.55 | 4.94 | 3.95 | 3.87 | 3.86 |
| 28   | 4.16 | ---  | 5.22 | 5.58  | 6.31 | 7.53  | 5.43  | 4.80 | 4.98 | 3.93 | 3.92 | 3.86 |
| 29   | 4.15 | 4.35 | 5.13 | 6.32  | 6.09 | 6.88  | 5.30  | 4.78 | 5.22 | 3.96 | 3.87 | 3.85 |
| 30   | 4.16 | 4.34 | 5.11 | 6.53  | ---  | 6.73  | 5.21  | 4.64 | 4.77 | 4.02 | 3.83 | 3.83 |
| 31   | 4.19 | ---  | 5.08 | 6.29  | ---  | 6.63  | ---   | 4.54 | ---  | 4.51 | 3.82 | ---  |
| MEAN | 4.78 | ---  | 5.24 | 6.45  | 5.35 | 6.30  | 8.19  | 5.10 | 4.64 | 4.14 | 4.08 | ---  |
| MAX  | 9.98 | ---  | 8.44 | 10.62 | 6.31 | 11.63 | 21.32 | 8.89 | 6.95 | 4.51 | 4.67 | ---  |
| MIN  | 4.14 | ---  | 4.30 | 5.15  | 4.98 | 4.93  | 5.21  | 4.54 | 4.21 | 3.93 | 3.82 | ---  |

02477990 BUCKATUNNA CREEK NEAR DENHAM, MS

LOCATION.--Lat 31°41'39", long 88°31'11", in NE1/4 NE1/4 sec.6, T.8 N., R.5 W., St. Stephens Meridian, Wayne County, Hydrologic Unit 03170002, on right bank on downstream side of bridge on county road, 3.5 mi north of Denham, and 8.0 mi east of Waynesboro.

DRAINAGE AREA.--492 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 141.15 ft above sea level. Prior to water year 1975, at datum 3.94 ft lower.

REMARKS.--Estimated daily discharges: Oct. 19 - Dec. 4, Feb. 25-28 and Apr. 24 - May 2. Records good except estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 4 | 1645 | *2,770                            | *14.92              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN   | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG   | SEP   |
|-------|------|------|------|-------|------|-------|-------|------|------|------|-------|-------|
| 1     | 24   | e54  | e43  | 90    | 433  | 307   | 425   | e125 | 47   | 31   | 9.6   | 5.3   |
| 2     | 20   | e54  | e44  | 87    | 349  | 229   | 643   | e118 | 43   | 45   | 9.5   | 6.3   |
| 3     | 22   | e55  | e44  | 87    | 297  | 186   | 915   | 109  | 41   | 86   | 12    | 6.9   |
| 4     | 41   | e68  | e42  | 160   | 261  | 171   | 2560  | 107  | 37   | 65   | 13    | 5.5   |
| 5     | 37   | e88  | 42   | 632   | 237  | 151   | 2630  | 100  | 36   | 50   | 17    | 4.1   |
| 6     | 32   | e90  | 41   | 1160  | 217  | 140   | 2500  | 105  | 47   | 40   | 19    | 3.4   |
| 7     | 29   | e64  | 42   | 1320  | 200  | 161   | 2460  | 96   | 34   | 32   | 15    | 3.9   |
| 8     | 29   | e56  | 41   | 1370  | 189  | 146   | 2560  | 86   | 31   | 28   | 16    | 5.7   |
| 9     | 658  | e52  | 42   | 812   | 180  | 130   | 2340  | 80   | 78   | 26   | 18    | 6.4   |
| 10    | 624  | e48  | 45   | 1300  | 174  | 122   | 948   | 75   | 64   | 23   | 17    | 6.0   |
| 11    | 1700 | e47  | 45   | 2250  | 169  | 141   | 604   | 70   | 50   | 22   | 15    | 6.5   |
| 12    | 1610 | e46  | 45   | 2650  | 165  | 206   | 461   | 67   | 41   | 21   | 21    | 5.4   |
| 13    | 1310 | e45  | 83   | 2110  | 163  | 366   | 550   | 62   | 36   | 21   | 19    | 4.4   |
| 14    | 656  | e44  | 73   | 775   | 159  | 444   | 702   | 58   | 33   | 18   | 15    | 4.3   |
| 15    | 330  | e44  | 131  | 524   | 158  | 307   | 731   | 54   | 33   | 15   | 12    | 4.4   |
| 16    | 226  | e44  | 292  | 418   | 163  | 232   | 683   | 50   | 31   | 15   | 12    | 4.3   |
| 17    | 172  | e45  | 186  | 356   | 157  | 194   | 524   | 48   | 36   | 16   | 14    | 5.9   |
| 18    | 137  | e45  | 136  | 319   | 149  | 176   | 407   | 45   | 43   | 15   | 14    | 5.2   |
| 19    | e112 | e47  | 157  | 297   | 144  | 783   | 336   | 44   | 57   | 14   | 13    | 4.7   |
| 20    | e103 | e47  | 155  | 284   | 143  | 1850  | 285   | 41   | 99   | 15   | 10    | 5.8   |
| 21    | e94  | e46  | 259  | 286   | 142  | 1690  | 248   | 40   | 89   | 15   | 8.6   | 15    |
| 22    | e86  | e44  | 289  | 266   | 143  | 1640  | 218   | 40   | 69   | 14   | 7.0   | 14    |
| 23    | e80  | e42  | 321  | 262   | 143  | 1530  | 198   | 44   | 59   | 12   | 5.9   | 13    |
| 24    | e74  | e40  | 332  | 319   | 134  | 1010  | e206  | 341  | 51   | 11   | 5.1   | 14    |
| 25    | e68  | e39  | 237  | 456   | e131 | 588   | e202  | 225  | 45   | 10   | 4.6   | 16    |
| 26    | e65  | e39  | 178  | 416   | e151 | 489   | e190  | 132  | 42   | 10   | 4.0   | 13    |
| 27    | e62  | e40  | 145  | 329   | e163 | 501   | e175  | 97   | 38   | 11   | 3.8   | 12    |
| 28    | e59  | e41  | 124  | 277   | e197 | 732   | e160  | 80   | 32   | 11   | 4.6   | 13    |
| 29    | e57  | e42  | 110  | 299   | 318  | 847   | e145  | 69   | 31   | 12   | 4.4   | 13    |
| 30    | e56  | e43  | 101  | 431   | ---  | 691   | e130  | 58   | 37   | 11   | 4.7   | 12    |
| 31    | e55  | ---  | 96   | 500   | ---  | 497   | ---   | 52   | ---  | 10   | 4.6   | ---   |
| TOTAL | 8628 | 1499 | 3921 | 20842 | 5629 | 16657 | 25136 | 2718 | 1410 | 725  | 348.4 | 239.4 |
| MEAN  | 278  | 50.0 | 126  | 672   | 194  | 537   | 838   | 87.7 | 47.0 | 23.4 | 11.2  | 7.98  |
| MAX   | 1700 | 90   | 332  | 2650  | 433  | 1850  | 2630  | 341  | 99   | 86   | 21    | 16    |
| MIN   | 20   | 39   | 41   | 87    | 131  | 122   | 130   | 40   | 31   | 10   | 3.8   | 3.4   |
| CFSM  | .57  | .10  | .26  | 1.37  | .39  | 1.09  | 1.70  | .18  | .10  | .05  | .02   | .02   |
| IN.   | .65  | .11  | .30  | 1.58  | .43  | 1.26  | 1.90  | .21  | .11  | .05  | .03   | .02   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000, BY WATER YEAR (WY)

|      | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 175  | 411  | 765  | 1433 | 1449 | 1573 | 1383 | 682  | 374  | 265  | 155  | 195  |      |      |      |      |      |      |      |      |      |
| MAX  | 945  | 1852 | 1901 | 3497 | 4046 | 3445 | 4431 | 3155 | 1465 | 1717 | 660  | 1315 |      |      |      |      |      |      |      |      |      |
| (WY) | 1976 | 1980 | 1987 | 1998 | 1990 | 1983 | 1980 | 1991 | 1991 | 1989 | 1975 | 1979 |      |      |      |      |      |      |      |      |      |
| MIN  | 16.8 | 23.7 | 118  | 172  | 194  | 475  | 164  | 87.7 | 26.9 | 23.4 | 11.2 | 7.98 |      |      |      |      |      |      |      |      |      |
| (WY) | 1979 | 1979 | 1988 | 1981 | 2000 | 1986 | 1986 | 2000 | 1988 | 2000 | 2000 | 2000 |      |      |      |      |      |      |      |      |      |

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1972 - 2000

|                          | 1999 CALENDAR YEAR | 2000 WATER YEAR | 1972 - 2000 |
|--------------------------|--------------------|-----------------|-------------|
| ANNUAL TOTAL             | 153830             | 87752.8         |             |
| ANNUAL MEAN              | 421                | 240             | 736         |
| HIGHEST ANNUAL MEAN      |                    |                 | 1388        |
| LOWEST ANNUAL MEAN       |                    |                 | 240         |
| HIGHEST DAILY MEAN       | 8490               | 2650            | 11700       |
| LOWEST DAILY MEAN        | 13                 | 3.4             | 3.4         |
| ANNUAL SEVEN-DAY MINIMUM | 15                 | 4.4             | 4.4         |
| INSTANTANEOUS PEAK FLOW  |                    | 2770            | 12200       |
| INSTANTANEOUS PEAK STAGE |                    | 14.92           | 34.90       |
| INSTANTANEOUS LOW FLOW   |                    | 3.3             | 3.3         |
| ANNUAL RUNOFF (CFSM)     | .86                | .49             | 1.50        |
| ANNUAL RUNOFF (INCHES)   | 11.63              | 6.63            | 20.33       |
| 10 PERCENT EXCEEDS       | 877                | 626             | 2020        |
| 50 PERCENT EXCEEDS       | 95                 | 66              | 297         |
| 90 PERCENT EXCEEDS       | 29                 | 10              | 41          |

e Estimated

## PASCAGOULA RIVER BASIN

02478500 CHICKASAWHAY RIVER AT LEAKESVILLE, MS

LOCATION.--Lat 31°08'54", long 88°33'52", in NE1/4 SW1/4 sec.12, T.2 N., R.6 W., St. Stephens Meridian, Greene County, Hydrologic Unit 03170003, on left bank on downstream side of abandoned bridge 400 ft below State Highway 63, 0.5 mi southeast of Leaksville, 1.8 mi upstream from Faulk Ditch, and 29.1 mi upstream from confluence with Leaf River.

DRAINAGE AREA.--2,690 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1938 to current year.

REVISED RECORDS.--WSP 1504: 1938-39.

GAGE.--Water-stage recorder. Datum of gage is 51.13 ft above sea level (levels by U.S. Army Corps of Engineers).  
Prior to Oct. 19, 1939, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Feb. 5-8, 12-13. Records good except for estimated daily discharges, which are poor. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in April 1900 reached a stage of 38 ft. and a flood in July 1916 reached a stage of 34.12 ft. discharge, 68,000 ft<sup>3</sup>/s, from information by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 7 | 1745 | *12,800                           | *21.02              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN   | JUL  | AUG  | SEP  |
|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------|------|------|
| 1     | 362   | 452   | 416   | 782   | 1870  | 1410  | 2650   | 993   | 449   | 478  | 322  | 197  |
| 2     | 367   | 449   | 407   | 757   | 1850  | 1490  | 2270   | 927   | 435   | 473  | 300  | 208  |
| 3     | 442   | 460   | 406   | 750   | 1670  | 1380  | 2380   | 889   | 415   | 466  | 319  | 196  |
| 4     | 505   | 469   | 405   | 873   | 1500  | 1300  | 4390   | 898   | 396   | 422  | 331  | 186  |
| 5     | 474   | 455   | 413   | 1250  | e1420 | 1270  | 9600   | 861   | 376   | 404  | 402  | 183  |
| 6     | 414   | 458   | 413   | 4600  | e1340 | 1110  | 11900  | 815   | 361   | 373  | 355  | 179  |
| 7     | 380   | 458   | 412   | 5680  | e1270 | 994   | 12700  | 777   | 357   | 342  | 352  | 181  |
| 8     | 385   | 451   | 416   | 4470  | e1180 | 929   | 12400  | 764   | 449   | 319  | 379  | 181  |
| 9     | 1320  | 443   | 421   | 3580  | 1110  | 901   | 10900  | 780   | 416   | 309  | 355  | 181  |
| 10    | 3680  | 446   | 425   | 3090  | 1080  | 863   | 7240   | 833   | 378   | 291  | 389  | 181  |
| 11    | 5160  | 444   | 425   | 6320  | 1050  | 869   | 4530   | 838   | 367   | 280  | 336  | 186  |
| 12    | 6850  | 440   | 435   | 8200  | e1020 | 984   | 3270   | 753   | 354   | 275  | 340  | 184  |
| 13    | 6040  | 437   | 503   | 6150  | e998  | 1240  | 2790   | 694   | 334   | 266  | 338  | 278  |
| 14    | 3870  | 435   | 633   | 4850  | 971   | 1540  | 2700   | 648   | 332   | 257  | 308  | 228  |
| 15    | 2570  | 432   | 802   | 3210  | 954   | 1700  | 2850   | 610   | 338   | 252  | 295  | 209  |
| 16    | 1670  | 423   | 1270  | 2330  | 945   | 1570  | 2860   | 579   | 355   | 238  | 300  | 206  |
| 17    | 1250  | 422   | 1540  | 1980  | 937   | 1340  | 2650   | 554   | 407   | 237  | 279  | 243  |
| 18    | 1010  | 417   | 1340  | 1770  | 923   | 1180  | 2380   | 532   | 501   | 246  | 254  | 347  |
| 19    | 851   | 414   | 1240  | 1640  | 906   | 1840  | 2060   | 518   | 574   | 260  | 238  | 309  |
| 20    | 748   | 422   | 1430  | 1540  | 891   | 4920  | 1820   | 500   | 641   | 255  | 227  | 261  |
| 21    | 667   | 449   | 1620  | 1470  | 878   | 7620  | 1620   | 485   | 658   | 248  | 218  | 236  |
| 22    | 613   | 461   | 1750  | 1430  | 875   | 8330  | 1470   | 475   | 630   | 250  | 210  | 225  |
| 23    | 578   | 467   | 1710  | 1440  | 892   | 7480  | 1350   | 498   | 706   | 253  | 205  | 214  |
| 24    | 538   | 464   | 1610  | 1540  | 893   | 5630  | 1330   | 1060  | 704   | 249  | 200  | 211  |
| 25    | 509   | 469   | 1520  | 1730  | 876   | 3840  | 1400   | 949   | 580   | 245  | 194  | 223  |
| 26    | 491   | 465   | 1320  | 1800  | 856   | 2770  | 1340   | 887   | 507   | 260  | 190  | 236  |
| 27    | 476   | 458   | 1140  | 1720  | 958   | 2970  | 1270   | 722   | 498   | 264  | 190  | 230  |
| 28    | 461   | 456   | 1010  | 1530  | 1120  | 3300  | 1240   | 601   | 467   | 258  | 203  | 217  |
| 29    | 453   | 444   | 922   | 1410  | 1290  | 3610  | 1180   | 535   | 474   | 275  | 196  | 208  |
| 30    | 444   | 428   | 858   | 1450  | ---   | 3740  | 1080   | 491   | 459   | 253  | 190  | 200  |
| 31    | 440   | ---   | 816   | 1650  | ---   | 3330  | ---    | 460   | ---   | 295  | 187  | ---  |
| TOTAL | 44018 | 13388 | 28028 | 80992 | 32523 | 81450 | 117620 | 21926 | 13918 | 9293 | 8602 | 6524 |
| MEAN  | 1420  | 446   | 904   | 2613  | 1121  | 2627  | 3921   | 707   | 464   | 300  | 277  | 217  |
| MAX   | 6850  | 469   | 1750  | 8200  | 1870  | 8330  | 12700  | 1060  | 706   | 478  | 402  | 347  |
| MIN   | 362   | 414   | 405   | 750   | 856   | 863   | 1080   | 460   | 332   | 237  | 187  | 179  |
| MED   | 538   | 449   | 816   | 1720  | 998   | 1540  | 2520   | 722   | 442   | 264  | 295  | 208  |
| CFSM  | .53   | .17   | .34   | .97   | .42   | .98   | 1.46   | .26   | .17   | .11  | .10  | .08  |
| IN.   | .61   | .19   | .39   | 1.12  | .45   | 1.13  | 1.63   | .30   | .19   | .13  | .12  | .09  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

|      |      |      |       |       |       |       |       |       |      |       |      |      |
|------|------|------|-------|-------|-------|-------|-------|-------|------|-------|------|------|
| MEAN | 997  | 1807 | 3896  | 5884  | 7374  | 8447  | 7634  | 4201  | 2025 | 1906  | 1322 | 1194 |
| MAX  | 4144 | 8146 | 18990 | 18120 | 23450 | 19890 | 26650 | 18310 | 6774 | 14390 | 6439 | 6115 |
| (WY) | 1976 | 1949 | 1962  | 1998  | 1990  | 1961  | 1980  | 1991  | 1991 | 1940  | 1946 | 1979 |
| MIN  | 181  | 240  | 515   | 762   | 1121  | 1783  | 1165  | 556   | 464  | 300   | 277  | 217  |
| (WY) | 1964 | 1964 | 1955  | 1956  | 2000  | 1955  | 1963  | 1963  | 2000 | 2000  | 2000 | 2000 |

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1938 - 2000 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |        |        |        |         |  |       |             |
|--------------------------|--------|--------|--------|---------|--|-------|-------------|
| ANNUAL TOTAL             | 921746 |        | 458282 |         |  |       |             |
| ANNUAL MEAN              | 2525   |        | 1252   |         |  | 3872  |             |
| HIGHEST ANNUAL MEAN      |        |        |        |         |  | 7710  | 1949        |
| LOWEST ANNUAL MEAN       |        |        |        |         |  | 1252  | 2000        |
| HIGHEST DAILY MEAN       | 26800  | Feb 2  | 12700  | Apr 7   |  | 72600 | Feb 28 1961 |
| LOWEST DAILY MEAN        | 264    | Sep 27 | 179    | Sep 6   |  | 162   | Oct 30 1963 |
| ANNUAL SEVEN-DAY MINIMUM | 268    | Sep 22 | 182    | Sep 4   |  | 166   | Oct 25 1963 |
| INSTANTANEOUS PEAK FLOW  |        |        | 12800  | Apr 7   |  | 73600 | Feb 28 1961 |
| INSTANTANEOUS PEAK STAGE |        |        | 21.02  | Apr 7   |  | 33.52 | Feb 28 1961 |
| INSTANTANEOUS LOW FLOW   |        |        | 175    | Sep 6-7 |  | 160   | Oct 30 1963 |
| ANNUAL RUNOFF (CFSM)     | .94    |        | .47    |         |  | 1.44  |             |
| ANNUAL RUNOFF (INCHES)   | 12.75  |        | 6.34   |         |  | 19.56 |             |
| 10 PERCENT EXCEEDS       | 5750   |        | 2850   |         |  | 10400 |             |
| 50 PERCENT EXCEEDS       | 922    |        | 546    |         |  | 1820  |             |
| 90 PERCENT EXCEEDS       | 382    |        | 236    |         |  | 480   |             |

e Estimated

## 02479000 PASCAGOULA RIVER AT MERRILL, MS

LOCATION.--Lat 30°58'40", long 88°43'28", in NW1/4 SW1/4 sec.18, T.1 S., R.7 W., St. Stephens Meridian, George County, Hydrologic Unit 03170006, near right bank on downstream side of bridge on County highway between Merrill and Avent, 0.5 mi downstream from confluence of Leaf and Chickasawhay Rivers, 0.5 mi west of Merrill, and at mile 80.8.

DRAINAGE AREA.--6,590 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for October and November 1930, published in WSP 1304. Daily mean gage heights published since January 1972. Gage-height records collected in same vicinity since 1904 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 26.25 ft above sea level. Prior to Dec. 6, 1934, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: July 9-18. Records good except for estimated daily discharges, which are poor. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in April 1900 reached a stage of 32.5 ft, and the flood of July 9, 1916, reached a stage of 31.0 ft, from information by National Weather Service.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 8 | 1500 | *26,700                           | *17.07              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT    | NOV   | DEC   | JAN    | FEB   | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|--------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 1340   | 1640  | 1240  | 1890   | 3500  | 3140   | 7000   | 2530  | 1130  | 1900  | 1560  | 677   |
| 2     | 1590   | 1830  | 1220  | 1820   | 3610  | 3250   | 5640   | 2370  | 1100  | 1400  | 1440  | 712   |
| 3     | 1650   | 1830  | 1210  | 1780   | 3450  | 3170   | 4910   | 2250  | 1080  | 1250  | 1210  | 729   |
| 4     | 1610   | 1810  | 1200  | 1860   | 3190  | 2930   | 6690   | 2220  | 1050  | 1150  | 1140  | 708   |
| 5     | 1460   | 1740  | 1210  | 2730   | 2950  | 3000   | 15700  | 2170  | 1030  | 1050  | 1110  | 691   |
| 6     | 1340   | 1600  | 1200  | 6690   | 2760  | 2810   | 21900  | 2080  | 1030  | 1000  | 1180  | 685   |
| 7     | 1230   | 1510  | 1210  | 10600  | 2610  | 2460   | 25100  | 2020  | 990   | 957   | 1100  | 697   |
| 8     | 1190   | 1470  | 1190  | 10300  | 2500  | 2230   | 26500  | 1980  | 996   | 933   | 1060  | 713   |
| 9     | 1790   | 1430  | 1200  | 8140   | 2410  | 2090   | 24900  | 1940  | 1080  | e930  | 1070  | 737   |
| 10    | 8860   | 1400  | 1220  | 6580   | 2350  | 1990   | 19300  | 1910  | 1050  | e890  | 1040  | 777   |
| 11    | 10800  | 1390  | 1220  | 8900   | 2300  | 1960   | 11900  | 1960  | 1020  | e870  | 1140  | 787   |
| 12    | 13900  | 1360  | 1230  | 13800  | 2240  | 2090   | 7470   | 1900  | 995   | e855  | 1300  | 792   |
| 13    | 13700  | 1340  | 1410  | 12400  | 2210  | 2780   | 5990   | 1770  | 977   | e840  | 1210  | 977   |
| 14    | 10100  | 1320  | 1960  | 9510   | 2240  | 3520   | 5740   | 1660  | 963   | e825  | 1040  | 1180  |
| 15    | 6790   | 1310  | 2170  | 7880   | 2210  | 3720   | 7230   | 1590  | 957   | e810  | 929   | 1050  |
| 16    | 4830   | 1280  | 2410  | 6260   | 2130  | 3580   | 7790   | 1520  | 954   | e800  | 861   | 997   |
| 17    | 3730   | 1250  | 3160  | 5030   | 2100  | 3240   | 7280   | 1430  | 1070  | e790  | 833   | 883   |
| 18    | 3110   | 1230  | 3190  | 4120   | 2090  | 2890   | 6230   | 1380  | 1190  | e780  | 794   | 852   |
| 19    | 2700   | 1230  | 3450  | 3680   | 2040  | 4680   | 5240   | 1330  | 1270  | 803   | 756   | 892   |
| 20    | 2400   | 1240  | 3980  | 3410   | 1980  | 9600   | 4560   | 1290  | 1350  | 842   | 727   | 854   |
| 21    | 2180   | 1260  | 4050  | 3190   | 1950  | 12800  | 4020   | 1260  | 1500  | 914   | 708   | 808   |
| 22    | 2020   | 1310  | 4600  | 3050   | 1910  | 15200  | 3600   | 1300  | 1520  | 856   | 690   | 794   |
| 23    | 1890   | 1310  | 4310  | 3040   | 1910  | 14800  | 3300   | 1300  | 1500  | 939   | 678   | 807   |
| 24    | 1770   | 1300  | 3910  | 3180   | 1930  | 12300  | 3130   | 1470  | 1530  | 923   | 664   | 792   |
| 25    | 1680   | 1300  | 3580  | 3500   | 1930  | 9390   | 3370   | 2020  | 1460  | 838   | 656   | 766   |
| 26    | 1620   | 1300  | 3160  | 3630   | 1910  | 7120   | 3480   | 1880  | 1360  | 793   | 649   | 761   |
| 27    | 1550   | 1300  | 2750  | 3580   | 2090  | 6010   | 3290   | 1760  | 1450  | 839   | 660   | 766   |
| 28    | 1500   | 1300  | 2450  | 3360   | 2480  | 8050   | 3100   | 1560  | 1330  | 866   | 667   | 756   |
| 29    | 1470   | 1300  | 2220  | 3150   | 2820  | 8910   | 2920   | 1390  | 1480  | 835   | 683   | 734   |
| 30    | 1440   | 1270  | 2080  | 3080   | ---   | 8980   | 2730   | 1270  | 2460  | 809   | 676   | 718   |
| 31    | 1450   | ---   | 1960  | 3210   | ---   | 8500   | ---    | 1190  | ---   | 816   | 670   | ---   |
| TOTAL | 112690 | 42160 | 71350 | 163350 | 69800 | 177190 | 260010 | 53700 | 36872 | 29093 | 28901 | 24092 |
| MEAN  | 3635   | 1405  | 2302  | 5269   | 2407  | 5716   | 8667   | 1732  | 1229  | 938   | 932   | 803   |
| MAX   | 13900  | 1830  | 4600  | 13800  | 3610  | 15200  | 26500  | 2530  | 2460  | 1900  | 1560  | 1180  |
| MIN   | 1190   | 1230  | 1190  | 1780   | 1910  | 1960   | 2730   | 1190  | 954   | 780   | 649   | 677   |
| CFSM  | .55    | .21   | .35   | .80    | .37   | .87    | 1.32   | .26   | .19   | .14   | .14   | .12   |
| IN.   | .64    | .24   | .40   | .92    | .39   | 1.00   | 1.47   | .30   | .21   | .16   | .16   | .14   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000, BY WATER YEAR (WY)

|      | MEAN  | MAX   | MIN   | (WY)  | MEAN  | MAX   | MIN   | (WY)  | MEAN  | MAX   | MIN   | (WY)  | MEAN | MAX | MIN | (WY) | MEAN | MAX | MIN | (WY) | MEAN | MAX | MIN | (WY) |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|------|------|-----|-----|------|------|-----|-----|------|
| 1931 | 3030  | 5033  | 10070 | 15370 | 18640 | 20250 | 18710 | 10780 | 5292  | 5235  | 3989  | 3584  |      |     |     |      |      |     |     |      |      |     |     |      |
| 1932 | 12410 | 21640 | 45210 | 45510 | 58660 | 47600 | 70770 | 49960 | 18580 | 34250 | 11500 | 15110 |      |     |     |      |      |     |     |      |      |     |     |      |
| 1933 | 1976  | 1949  | 1962  | 1998  | 1990  | 1961  | 1980  | 1991  | 1991  | 1940  | 1975  | 1979  |      |     |     |      |      |     |     |      |      |     |     |      |
| 1934 | 763   | 914   | 1598  | 2328  | 2407  | 4671  | 3049  | 1679  | 1229  | 938   | 932   | 803   |      |     |     |      |      |     |     |      |      |     |     |      |
| 1935 | 1964  | 1964  | 1955  | 1956  | 2000  | 1955  | 1963  | 1963  | 2000  | 2000  | 2000  | 2000  |      |     |     |      |      |     |     |      |      |     |     |      |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1931 - 2000

|                          |         |         |        |
|--------------------------|---------|---------|--------|
| ANNUAL TOTAL             | 2316941 | 1069208 | 9954   |
| ANNUAL MEAN              | 6348    | 2921    | 19410  |
| HIGHEST ANNUAL MEAN      |         |         | 2921   |
| LOWEST ANNUAL MEAN       |         |         | 1949   |
| HIGHEST DAILY MEAN       | 68500   | Feb 2   | 176000 |
| LOWEST DAILY MEAN        | 868     | Sep 25  | 649    |
| ANNUAL SEVEN-DAY MINIMUM | 878     | Sep 22  | 665    |
| INSTANTANEOUS PEAK FLOW  |         |         | 26700  |
| INSTANTANEOUS PEAK STAGE |         |         | 17.07  |
| INSTANTANEOUS LOW FLOW   |         |         | 647    |
| ANNUAL RUNOFF (CFSM)     | .96     | .44     | 1.51   |
| ANNUAL RUNOFF (INCHES)   | 13.08   | 6.04    | 20.52  |
| 10 PERCENT EXCEEDS       | 11500   | 6850    | 24700  |
| 50 PERCENT EXCEEDS       | 2400    | 1600    | 5030   |
| 90 PERCENT EXCEEDS       | 1230    | 794     | 1580   |

e Estimated

## PASCAGOULA RIVER BASIN

02479000 PASCAGOULA RIVER AT MERRILL, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT   | NOV  | DEC  | JAN   | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|-------|------|------|-------|------|-------|-------|------|------|------|------|------|
| 1    | 2.66  | 2.88 | 2.49 | 3.36  | 4.72 | 4.40  | 7.40  | 3.83 | 2.27 | 3.17 | 2.76 | 1.32 |
| 2    | 2.96  | 3.10 | 2.46 | 3.29  | 4.82 | 4.50  | 6.43  | 3.67 | 2.23 | 2.62 | 2.65 | 1.39 |
| 3    | 3.03  | 3.10 | 2.45 | 3.24  | 4.68 | 4.43  | 5.88  | 3.54 | 2.19 | 2.42 | 2.38 | 1.43 |
| 4    | 2.98  | 3.08 | 2.45 | 3.33  | 4.45 | 4.20  | 7.15  | 3.51 | 2.15 | 2.30 | 2.28 | 1.37 |
| 5    | 2.81  | 3.00 | 2.46 | 4.20  | 4.22 | 4.27  | 12.46 | 3.46 | 2.10 | 2.15 | 2.25 | 1.31 |
| 6    | 2.66  | 2.85 | 2.46 | 7.27  | 4.05 | 4.09  | 15.40 | 3.37 | 2.10 | 2.05 | 2.35 | 1.29 |
| 7    | 2.53  | 2.74 | 2.47 | 9.70  | 3.90 | 3.76  | 16.53 | 3.30 | 2.03 | 1.96 | 2.24 | 1.30 |
| 8    | 2.47  | 2.69 | 2.46 | 9.51  | 3.79 | 3.52  | 17.01 | 3.26 | 2.04 | 1.91 | 2.18 | 1.33 |
| 9    | 3.12  | 2.64 | 2.47 | 8.25  | 3.71 | 3.38  | 16.46 | 3.22 | 2.19 | ---  | 2.20 | 1.38 |
| 10   | 8.60  | 2.60 | 2.50 | 7.25  | 3.65 | 3.28  | 14.24 | 3.19 | 2.14 | ---  | 2.14 | 1.47 |
| 11   | 9.82  | 2.60 | 2.50 | 8.67  | 3.59 | 3.24  | 10.43 | 3.24 | 2.08 | ---  | 2.30 | 1.48 |
| 12   | 11.54 | 2.56 | 2.53 | 11.47 | 3.54 | 3.38  | 7.71  | 3.18 | 2.04 | ---  | 2.52 | 1.49 |
| 13   | 11.42 | 2.54 | 2.75 | 10.70 | 3.51 | 4.06  | 6.69  | 3.04 | 2.00 | ---  | 2.41 | 1.86 |
| 14   | 9.38  | 2.51 | 3.38 | 9.02  | 3.53 | 4.74  | 6.50  | 2.91 | 1.97 | ---  | 2.16 | 2.24 |
| 15   | 7.25  | 2.50 | 3.60 | 7.99  | 3.50 | 4.91  | 7.55  | 2.83 | 1.96 | ---  | 1.95 | 2.06 |
| 16   | 5.81  | 2.46 | 3.85 | 6.88  | 3.42 | 4.79  | 7.93  | 2.74 | 1.95 | ---  | 1.80 | 1.95 |
| 17   | 4.92  | 2.43 | 4.56 | 5.97  | 3.39 | 4.49  | 7.59  | 2.64 | 2.16 | ---  | 1.74 | 1.72 |
| 18   | 4.37  | 2.41 | 4.60 | 5.25  | 3.37 | 4.17  | 6.86  | 2.58 | 2.35 | ---  | 1.65 | 1.65 |
| 19   | 3.99  | 2.41 | 4.83 | 4.87  | 3.32 | 5.62  | 6.13  | 2.52 | 2.44 | 1.62 | 1.56 | 1.74 |
| 20   | 3.70  | 2.42 | 5.30 | 4.64  | 3.26 | 9.08  | 5.60  | 2.47 | 2.55 | 1.70 | 1.50 | 1.66 |
| 21   | 3.47  | 2.45 | 5.36 | 4.45  | 3.23 | 10.70 | 5.16  | 2.44 | 2.72 | 1.87 | 1.46 | 1.56 |
| 22   | 3.30  | 2.52 | 5.82 | 4.32  | 3.19 | 11.67 | 4.81  | 2.48 | 2.75 | 1.74 | 1.42 | 1.53 |
| 23   | 3.16  | 2.53 | 5.58 | 4.30  | 3.19 | 11.66 | 4.54  | 2.48 | 2.72 | 1.92 | 1.38 | 1.56 |
| 24   | 3.03  | 2.52 | 5.26 | 4.43  | 3.21 | 10.57 | 4.39  | 2.69 | 2.76 | 1.89 | 1.36 | 1.53 |
| 25   | 2.93  | 2.52 | 4.98 | 4.72  | 3.21 | 8.95  | 4.60  | 3.31 | 2.68 | 1.70 | 1.34 | 1.47 |
| 26   | 2.86  | 2.53 | 4.62 | 4.83  | 3.19 | 7.47  | 4.70  | 3.15 | 2.56 | 1.59 | 1.32 | 1.46 |
| 27   | 2.79  | 2.54 | 4.24 | 4.79  | 3.37 | 6.70  | 4.54  | 3.02 | 2.66 | 1.70 | 1.33 | 1.48 |
| 28   | 2.73  | 2.54 | 3.95 | 4.60  | 3.78 | 8.10  | 4.36  | 2.79 | 2.52 | 1.76 | 1.34 | 1.45 |
| 29   | 2.69  | 2.54 | 3.72 | 4.41  | 4.11 | 8.66  | 4.20  | 2.60 | 2.69 | 1.69 | 1.37 | 1.41 |
| 30   | 2.66  | 2.52 | 3.56 | 4.35  | ---  | 8.70  | 4.02  | 2.45 | 3.76 | 1.63 | 1.34 | 1.37 |
| 31   | 2.66  | ---  | 3.44 | 4.46  | ---  | 8.40  | ---   | 2.35 | ---  | 1.65 | 1.31 | ---  |
| MEAN | 4.46  | 2.62 | 3.65 | 5.95  | 3.69 | 6.13  | 7.91  | 2.98 | 2.36 | ---  | 1.87 | 1.54 |
| MAX  | 11.54 | 3.10 | 5.82 | 11.47 | 4.82 | 11.67 | 17.01 | 3.83 | 3.76 | ---  | 2.76 | 2.24 |
| MIN  | 2.47  | 2.41 | 2.45 | 3.24  | 3.19 | 3.24  | 4.02  | 2.35 | 1.95 | ---  | 1.31 | 1.29 |



## 02479130 BLACK CREEK NEAR BROOKLYN, MS

LOCATION.--Lat 31°03'07", long 89°12'02", in NW 1/4 NE 1/4 sec.16, T.1 N., R.12 W., St. Stephens Meridian, Forrest County, Hydrologic Unit 03170007, near right bank at downstream side of downstream bridge of dual bridges on U.S. Highway 49, 1.1 mi southwest of Brooklyn, and 4.5 mi upstream from Chaney Creek.

DRAINAGE AREA.--355 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1942-45, 1954-57, 1959, 1961, 1964-66. October 1970 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 128.14 ft above sea level (Mississippi State Highway Department bench mark).

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station..

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 18, 1961, reached a stage of 25.70 ft, discharge, 21,500 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft<sup>3</sup>/s and maximum (\*)

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Oct. 9 | 1900 | *4,090                            | *13.88              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 120  | 427  | 120  | 157  | 193  | 187  | 200  | 94   | 41   | 158  | 61   | 55   |
| 2     | 93   | 327  | 111  | 156  | 174  | 154  | 175  | 103  | 40   | 110  | 56   | 53   |
| 3     | 80   | 214  | 100  | 156  | 162  | 136  | 183  | 133  | 41   | 88   | 102  | 46   |
| 4     | 75   | 164  | 103  | 331  | 155  | 162  | 606  | 119  | 40   | 79   | 114  | 41   |
| 5     | 75   | 140  | 104  | 551  | 147  | 163  | 528  | 102  | 42   | 70   | 82   | 42   |
| 6     | 80   | 125  | 104  | 531  | 141  | 139  | 433  | 97   | 45   | 64   | 63   | 42   |
| 7     | 76   | 116  | 102  | 432  | 139  | 132  | 352  | 98   | 41   | 61   | 57   | 45   |
| 8     | 79   | 110  | 102  | 272  | 140  | 122  | 216  | 93   | 39   | 57   | 52   | 75   |
| 9     | 2290 | 108  | 103  | 220  | 139  | 116  | 168  | 87   | 37   | 50   | 48   | 87   |
| 10    | 1760 | 104  | 106  | 355  | 137  | 115  | 147  | 79   | 39   | 49   | 60   | 76   |
| 11    | 744  | 101  | 106  | 543  | 139  | 145  | 132  | 75   | 40   | 50   | 188  | 64   |
| 12    | 441  | 98   | 107  | 528  | 139  | 302  | 125  | 71   | 38   | 43   | 144  | 57   |
| 13    | 315  | 97   | 254  | 442  | 136  | 295  | 155  | 68   | 39   | 41   | 88   | 70   |
| 14    | 217  | 97   | 468  | 302  | 135  | 261  | 394  | 65   | 46   | 37   | 65   | 80   |
| 15    | 167  | 95   | 322  | 224  | 135  | 195  | 373  | 61   | 55   | 35   | 53   | 84   |
| 16    | 143  | 92   | 218  | 195  | 132  | 194  | 322  | 58   | 65   | 34   | 48   | 98   |
| 17    | 129  | 89   | 164  | 181  | 130  | 225  | 224  | 57   | 79   | 34   | 44   | 80   |
| 18    | 117  | 94   | 188  | 174  | 130  | 206  | 168  | 57   | 78   | 38   | 41   | 66   |
| 19    | 108  | 113  | 801  | 168  | 131  | 418  | 146  | 60   | 81   | 41   | 38   | 60   |
| 20    | 101  | 116  | 684  | 165  | 124  | 632  | 131  | 62   | 85   | 40   | 37   | 57   |
| 21    | 96   | 120  | 876  | 184  | 119  | 491  | 118  | 81   | 74   | 36   | 40   | 56   |
| 22    | 92   | 121  | 734  | 200  | 113  | 409  | 109  | 85   | 61   | 45   | 39   | 56   |
| 23    | 90   | 123  | 516  | 240  | 109  | 301  | 104  | 80   | 53   | 74   | 37   | 52   |
| 24    | 87   | 127  | 397  | 338  | 108  | 201  | 133  | 73   | 49   | 55   | 33   | 54   |
| 25    | 84   | 131  | 312  | 312  | 111  | 170  | 274  | 68   | 53   | 46   | 32   | 52   |
| 26    | 84   | 139  | 268  | 268  | 108  | 162  | 228  | 58   | 131  | 38   | 37   | 48   |
| 27    | 83   | 143  | 242  | 212  | 142  | 290  | 162  | 53   | 384  | 36   | 44   | 46   |
| 28    | 85   | 139  | 202  | 191  | 196  | 374  | 135  | 51   | 318  | 36   | 44   | 44   |
| 29    | 83   | 135  | 183  | 209  | 207  | 315  | 116  | 48   | 348  | 35   | 44   | 42   |
| 30    | 84   | 128  | 170  | 222  | ---  | 276  | 104  | 46   | 238  | 40   | 42   | 39   |
| 31    | 165  | ---  | 158  | 216  | ---  | 238  | ---  | 42   | ---  | 58   | 47   | ---  |
| TOTAL | 8243 | 4133 | 8425 | 8675 | 4071 | 7526 | 6661 | 2324 | 2720 | 1678 | 1880 | 1767 |
| MEAN  | 266  | 138  | 272  | 280  | 140  | 243  | 222  | 75.0 | 90.7 | 54.1 | 60.6 | 58.9 |
| MAX   | 2290 | 427  | 876  | 551  | 207  | 632  | 606  | 133  | 384  | 158  | 188  | 98   |
| MIN   | 75   | 89   | 100  | 156  | 108  | 115  | 104  | 42   | 37   | 34   | 32   | 39   |
| CFSM  | .75  | .39  | .77  | .79  | .40  | .68  | .63  | .21  | .26  | .15  | .17  | .17  |
| IN.   | .86  | .43  | .88  | .91  | .43  | .79  | .70  | .24  | .29  | .18  | .20  | .19  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

|      | MEAN | MAX  | MIN  | (WY) | MEAN | MAX  | MIN  | (WY) | MEAN | MAX  | MIN  | (WY) | MEAN | MAX | MIN | (WY) | MEAN | MAX | MIN | (WY) |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|------|------|-----|-----|------|
| 1971 | 313  | 436  | 723  | 1069 | 1053 | 1047 | 1017 | 662  | 419  | 362  | 291  | 280  |      |     |     |      |      |     |     |      |
| 1972 | 1142 | 944  | 2141 | 2417 | 2304 | 2025 | 3968 | 2355 | 1354 | 1056 | 866  | 896  |      |     |     |      |      |     |     |      |
| 1973 | 1986 | 1987 | 1972 | 1993 | 1990 | 1980 | 1983 | 1991 | 1990 | 1979 | 1987 | 1974 |      |     |     |      |      |     |     |      |
| 1974 | 88.8 | 138  | 265  | 248  | 140  | 243  | 219  | 75.0 | 90.7 | 54.1 | 60.6 | 58.9 |      |     |     |      |      |     |     |      |
| 1975 | 1983 | 2000 | 1999 | 1981 | 2000 | 2000 | 1999 | 2000 | 2000 | 2000 | 2000 | 2000 |      |     |     |      |      |     |     |      |

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1971 - 2000

|                          | 1999   | 2000   | 1971-2000 |
|--------------------------|--------|--------|-----------|
| ANNUAL TOTAL             | 125359 | 58103  | 637       |
| ANNUAL MEAN              | 343    | 159    | 998       |
| HIGHEST ANNUAL MEAN      |        |        | 159       |
| LOWEST ANNUAL MEAN       |        |        | 1980      |
| HIGHEST DAILY MEAN       | 9540   | Jan 31 | 2290      |
| LOWEST DAILY MEAN        | 47     | Sep 24 | 32        |
| ANNUAL SEVEN-DAY MINIMUM | 48     | Sep 22 | 36        |
| INSTANTANEOUS PEAK FLOW  |        |        | 4090      |
| INSTANTANEOUS PEAK STAGE |        |        | 13.88     |
| ANNUAL RUNOFF (CFSM)     | .97    |        | .45       |
| ANNUAL RUNOFF (INCHES)   | 13.14  |        | 6.09      |
| 10 PERCENT EXCEEDS       | 520    |        | 322       |
| 50 PERCENT EXCEEDS       | 143    |        | 108       |
| 90 PERCENT EXCEEDS       | 77     |        | 42        |

## PASCAGOULA RIVER BASIN

02479155 CYPRESS CREEK NEAR JANICE, MS  
(Hydrologic bench-mark station)

LOCATION.--Lat 31°01'32", long 89°00'51", in NW1/4 NE1/4 sec.29, T.1 N., R.10 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170007, on right bank, 75 ft downstream from bridge on State Highway 29, 1.2 mi east of Janice, and 5.5 mi upstream from mouth.

DRAINAGE AREA.--52.6 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area. WDR MS-85-1: 1959 (M), 1979 (M). WDR MS-93-1: 1992.

GAGE.--Water-stage recorder. Elevation of gage is 103 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1, 1959, reached a stage of 32.06 ft, discharge, 16,700 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Oct. 9 | 2300 | *962                              | *12.32              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT    | NOV   | DEC    | JAN  | FEB  | MAR  | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|--------|-------|--------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1     | 14     | 38    | 8.7    | 22   | 24   | 20   | 23    | 8.7   | 3.5   | 40    | 11    | 3.7   |
| 2     | 10     | 27    | 8.7    | 20   | 22   | 16   | 19    | 8.5   | 3.4   | 15    | 13    | 4.5   |
| 3     | 10     | 16    | 8.9    | 20   | 20   | 15   | 33    | 8.6   | 3.5   | 9.3   | 45    | 4.3   |
| 4     | 14     | 13    | 9.3    | 103  | 19   | 16   | 153   | 8.3   | 3.6   | 7.4   | 26    | 3.7   |
| 5     | 11     | 11    | 13     | 94   | 18   | 15   | 81    | 8.1   | 4.0   | 6.4   | 12    | 3.4   |
| 6     | 9.1    | 10    | 15     | 50   | 17   | 13   | 36    | 7.7   | 5.2   | 6.1   | 8.4   | 3.3   |
| 7     | 8.9    | 9.4   | 13     | 35   | 17   | 12   | 23    | 7.3   | 5.0   | 5.5   | 6.5   | 3.6   |
| 8     | 10     | 9.1   | 11     | 29   | 17   | 12   | 18    | 7.0   | 4.3   | 5.2   | 7.8   | 4.6   |
| 9     | 350    | 8.9   | 11     | 39   | 16   | 12   | 15    | 6.9   | 4.0   | 4.9   | 13    | 5.4   |
| 10    | 417    | 8.6   | 11     | 131  | 16   | 11   | 13    | 6.5   | 3.8   | 4.9   | 13    | 6.2   |
| 11    | 125    | 8.4   | 11     | 100  | 16   | 24   | 12    | 6.3   | 3.5   | 4.6   | 71    | 5.4   |
| 12    | 52     | 8.2   | 13     | 54   | 15   | 40   | 13    | 6.2   | 3.3   | 4.2   | 43    | 4.8   |
| 13    | 28     | 8.1   | 71     | 38   | 15   | 25   | 22    | 5.8   | 3.2   | 4.1   | 15    | 5.2   |
| 14    | 20     | 8.1   | 59     | 30   | 16   | 18   | 109   | 5.7   | 6.8   | 4.7   | 8.8   | 5.4   |
| 15    | 15     | 8.0   | 29     | 25   | 15   | 16   | 49    | 5.4   | 8.3   | 4.7   | 6.7   | 5.1   |
| 16    | 13     | 7.8   | 20     | 23   | 14   | 20   | 27    | 5.2   | 22    | 4.4   | 5.7   | 4.2   |
| 17    | 12     | 7.5   | 16     | 21   | 14   | 19   | 20    | 5.1   | 126   | 4.9   | 5.1   | 3.7   |
| 18    | 11     | 7.5   | 46     | 20   | 14   | 16   | 15    | 5.1   | 55    | 4.8   | 4.7   | 3.5   |
| 19    | 9.8    | 7.8   | 205    | 20   | 14   | 242  | 12    | 5.1   | 36    | 4.6   | 4.2   | 3.4   |
| 20    | 9.5    | 8.5   | 111    | 19   | 13   | 272  | 11    | 4.9   | 19    | 4.2   | 3.9   | 3.4   |
| 21    | 9.0    | 8.8   | 188    | 18   | 12   | 95   | 10    | 7.2   | 12    | 4.4   | 3.7   | 4.1   |
| 22    | 8.7    | 9.2   | 158    | 18   | 12   | 48   | 9.2   | 7.0   | 8.0   | 4.7   | 3.8   | 5.0   |
| 23    | 8.3    | 9.3   | 75     | 81   | 12   | 30   | 9.0   | 5.7   | 6.4   | 7.4   | 3.9   | 4.3   |
| 24    | 8.1    | 9.3   | 48     | 98   | 12   | 24   | 16    | 5.1   | 5.7   | 8.4   | 3.9   | 4.1   |
| 25    | 7.9    | 9.6   | 37     | 52   | 12   | 20   | 28    | 4.8   | 5.3   | 6.2   | 3.6   | 4.0   |
| 26    | 7.9    | 10    | 31     | 34   | 12   | 21   | 18    | 4.5   | 6.5   | 5.1   | 3.5   | 3.7   |
| 27    | 7.9    | 10    | 28     | 27   | 43   | 43   | 16    | 4.3   | 20    | 4.5   | 3.6   | 3.4   |
| 28    | 7.8    | 9.8   | 26     | 26   | 47   | 50   | 13    | 4.1   | 12    | 8.1   | 3.5   | 3.4   |
| 29    | 7.8    | 9.3   | 24     | 30   | 27   | 30   | 11    | 4.0   | 32    | 5.8   | 3.3   | 3.2   |
| 30    | 7.6    | 9.0   | 23     | 30   | ---  | 38   | 9.5   | 3.6   | 129   | 5.1   | 3.0   | 3.2   |
| 31    | 12     | ---   | 22     | 28   | ---  | 35   | ---   | 3.4   | ---   | 5.7   | 3.1   | ---   |
| TOTAL | 1242.3 | 325.2 | 1350.6 | 1335 | 521  | 1268 | 843.7 | 186.1 | 560.3 | 215.3 | 362.7 | 125.2 |
| MEAN  | 40.1   | 10.8  | 43.6   | 43.1 | 18.0 | 40.9 | 28.1  | 6.00  | 18.7  | 6.95  | 11.7  | 4.17  |
| MAX   | 417    | 38    | 205    | 131  | 47   | 272  | 153   | 8.7   | 129   | 40    | 71    | 6.2   |
| MIN   | 7.6    | 7.5   | 8.7    | 18   | 12   | 11   | 9.0   | 3.4   | 3.2   | 4.1   | 3.0   | 3.2   |
| CFSM  | .76    | .21   | .83    | .82  | .34  | .78  | .53   | .11   | .36   | .13   | .22   | .08   |
| IN.   | .88    | .23   | .96    | .94  | .37  | .90  | .60   | .13   | .40   | .15   | .26   | .09   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 38.2 | 60.2 | 115  | 162  | 163  | 173  | 158  | 93.8 | 49.2 | 45.7 | 40.0 | 49.5 |
| MAX  | 287  | 236  | 265  | 442  | 417  | 383  | 637  | 558  | 296  | 137  | 131  | 229  |
| (WY) | 1986 | 1980 | 1972 | 1993 | 1990 | 1980 | 1983 | 1991 | 1989 | 1991 | 1975 | 1979 |
| MIN  | 5.86 | 8.58 | 25.8 | 24.5 | 18.0 | 40.9 | 27.0 | 6.00 | 8.78 | 6.95 | 7.20 | 4.17 |
| (WY) | 1969 | 1982 | 1991 | 1981 | 2000 | 2000 | 1999 | 2000 | 1968 | 2000 | 1981 | 2000 |

### SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

## WATER YEARS 1967 - 2000

|                          |         |        |        |         |       |             |
|--------------------------|---------|--------|--------|---------|-------|-------------|
| ANNUAL TOTAL             | 20240.9 |        | 8335.4 |         |       |             |
| ANNUAL MEAN              | 55.5    |        | 22.8   |         | 95.3  |             |
| HIGHEST ANNUAL MEAN      |         |        |        |         | 175   | 1980        |
| LOWEST ANNUAL MEAN       |         |        |        |         | 22.8  | 2000        |
| HIGHEST DAILY MEAN       | 2890    | Mar 14 | 417    | Oct 10  | 8820  | Apr 7 1983  |
| LOWEST DAILY MEAN        | 6.0     | Sep 17 | 3.0    | Aug 30  | 3.0   | Aug 30 2000 |
| ANNUAL SEVEN-DAY MINIMUM | 6.2     | Sep 17 | 3.4    | Aug 25  | 3.4   | Aug 25 2000 |
| INSTANTANEOUS PEAK FLOW  |         |        | 962    | Oct 9   | 13000 | Apr 4 1979  |
| INSTANTANEOUS PEAK STAGE |         |        | 12.32  | Oct 9   | 29.51 | Apr 7 1983  |
| INSTANTANEOUS LOW FLOW   |         |        | 3.0    | Jun 13a | 3.0   | Jun 13 2000 |
| ANNUAL RUNOFF (CFSM)     | 1.05    |        | .43    |         | 1.81  |             |
| ANNUAL RUNOFF (INCHES)   | 14.31   |        | 5.89   |         | 24.62 |             |
| 10 PERCENT EXCEEDS       | 84      |        | 45     |         | 193   |             |
| 50 PERCENT EXCEEDS       | 15      |        | 11     |         | 36    |             |
| 90 PERCENT EXCEEDS       | 7.9     |        | 4.0    |         | 10    |             |

a Also occurred on Aug. 29, 30, and 31.

PASCAGOULA RIVER BASIN  
02479160 BLACK CREEK NEAR WIGGINS, MS

87

LOCATION.--Lat 30°51'12", long 88°54'39", in SE1/4 SW1/4 sec.20, T.2 S., R.9 W., St. Stephens Meridian, Stone County, Hydrologic Unit 03170007, on left bank on downstream side of bridge on State Highway 26, 1.7 mi downstream from Flat Branch, 8.6 mi upstream from Sweetwater Creek, and 13.4 mi east of Wiggins.

DRAINAGE AREA.--701 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1956-57, 1959-60. October 1971 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 48.94 ft above sea level. Prior to 1978 water year, at datum 0.05 ft lower.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood (believed to be that of July 1916) reached a stage of 30.5 ft, from Mississippi State Highway Department plans. The flood of June 3, 1959, reached a stage of 25.88 ft, and the flood of Feb. 19, 1961, 25.83 ft from floodmarks, discharge, about 26,000 ft<sup>3</sup>/s, based on peak data at sites upstream and downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Oct. 10 | 1730 | *5,160                            | *15.59              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC   | JAN   | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|-------|------|-------|-------|------|-------|-------|------|------|------|------|------|
| 1     | 302   | 484  | 223   | 324   | 392  | 351   | 373   | 171  | 87   | 387  | 99   | 79   |
| 2     | 255   | 812  | 250   | 313   | 358  | 314   | 298   | 162  | 84   | 237  | 143  | 91   |
| 3     | 203   | 558  | 237   | 308   | 329  | 269   | 278   | 166  | 82   | 172  | 143  | 105  |
| 4     | 183   | 398  | 240   | 398   | 310  | 251   | 597   | 203  | 81   | 142  | 183  | 99   |
| 5     | 170   | 321  | 254   | 866   | 292  | 273   | 1090  | 201  | 81   | 126  | 175  | 82   |
| 6     | 160   | 277  | 283   | 891   | 278  | 277   | 745   | 176  | 87   | 114  | 142  | 81   |
| 7     | 164   | 249  | 259   | 763   | 269  | 242   | 568   | 163  | 92   | 107  | 116  | 89   |
| 8     | 177   | 231  | 227   | 617   | 268  | 224   | 452   | 159  | 87   | 101  | 103  | 91   |
| 9     | 727   | 220  | 215   | 491   | 268  | 214   | 321   | 153  | 82   | 96   | 120  | 118  |
| 10    | 4880  | 213  | 213   | 646   | 265  | 202   | 263   | 148  | 79   | 97   | 126  | 143  |
| 11    | 2880  | 208  | 211   | 923   | 259  | 222   | 230   | 139  | 78   | 91   | 153  | 139  |
| 12    | 1320  | 203  | 212   | 887   | 258  | 358   | 212   | 133  | 78   | 87   | 315  | 116  |
| 13    | 802   | 197  | 286   | 771   | 262  | 465   | 220   | 127  | 78   | 82   | 240  | 104  |
| 14    | 587   | 194  | 623   | 636   | 270  | 416   | 382   | 122  | 81   | 77   | 160  | 118  |
| 15    | 450   | 191  | 669   | 482   | 256  | 370   | 615   | 116  | 97   | 79   | 124  | 125  |
| 16    | 367   | 189  | 482   | 401   | 246  | 326   | 509   | 112  | 121  | 74   | 103  | 126  |
| 17    | 318   | 183  | 369   | 363   | 240  | 323   | 422   | 110  | 278  | 73   | 91   | 122  |
| 18    | 284   | 180  | 336   | 341   | 240  | 341   | 323   | 108  | 375  | 73   | 83   | 116  |
| 19    | 258   | 179  | 1070  | 328   | 236  | 847   | 255   | 107  | 247  | 73   | 77   | 102  |
| 20    | 239   | 198  | 1590  | 317   | 229  | 2000  | 221   | 108  | 185  | 74   | 73   | 95   |
| 21    | 224   | 207  | 1440  | 305   | 221  | 1310  | 203   | 119  | 161  | 84   | 69   | 96   |
| 22    | 213   | 216  | 1900  | 312   | 214  | 833   | 184   | 150  | 139  | 166  | 69   | 117  |
| 23    | 203   | 223  | 1240  | 351   | 208  | 640   | 173   | 150  | 119  | 149  | 73   | 117  |
| 24    | 194   | 223  | 865   | 669   | 204  | 493   | 186   | 139  | 104  | 160  | 79   | 101  |
| 25    | 187   | 224  | 668   | 652   | 204  | 379   | 232   | 126  | 94   | 130  | 75   | 95   |
| 26    | 183   | 230  | 548   | 533   | 206  | 330   | 362   | 119  | 97   | 104  | 68   | 90   |
| 27    | 181   | 237  | 483   | 452   | 289  | 365   | 319   | 110  | 197  | 88   | 65   | 86   |
| 28    | 179   | 244  | 442   | 393   | 407  | 613   | 249   | 107  | 390  | 78   | 74   | 81   |
| 29    | 177   | 238  | 395   | 385   | 392  | 621   | 211   | 99   | 347  | 78   | 85   | 78   |
| 30    | 175   | 231  | 362   | 413   | ---  | 537   | 188   | 92   | 475  | 79   | 74   | 75   |
| 31    | 190   | ---  | 344   | 417   | ---  | 496   | ---   | 89   | ---  | 95   | 76   | ---  |
| TOTAL | 16832 | 7958 | 16936 | 15948 | 7870 | 14902 | 10681 | 4184 | 4583 | 3573 | 3576 | 3077 |
| MEAN  | 543   | 265  | 546   | 514   | 271  | 481   | 356   | 135  | 153  | 115  | 115  | 103  |
| MAX   | 4880  | 812  | 1900  | 923   | 407  | 2000  | 1090  | 203  | 475  | 387  | 315  | 143  |
| MIN   | 160   | 179  | 211   | 305   | 204  | 202   | 173   | 89   | 78   | 73   | 65   | 75   |
| CFSM  | .77   | .38  | .78   | .73   | .39  | .69   | .51   | .19  | .22  | .16  | .16  | .15  |
| IN.   | .89   | .42  | .90   | .85   | .42  | .79   | .57   | .22  | .24  | .19  | .19  | .16  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000, BY WATER YEAR (WY)

|      | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 593  | 881  | 1423 | 2100 | 2155 | 2205 | 2152 | 1364 | 840  | 719  | 599  | 629  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MAX  | 2574 | 2354 | 4218 | 4909 | 5288 | 3986 | 7713 | 5400 | 2365 | 1940 | 1960 | 2277 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1976 | 1986 | 1972 | 1993 | 1990 | 1980 | 1980 | 1991 | 1997 | 1979 | 1975 | 1979 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MIN  | 154  | 242  | 546  | 450  | 271  | 481  | 356  | 135  | 153  | 115  | 115  | 103  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1982 | 1982 | 2000 | 1981 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1972 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 252550                 | 110120              |                         |
| ANNUAL MEAN              | 692                    | 301                 | 1301                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 2307                    |
| LOWEST ANNUAL MEAN       |                        |                     | 301                     |
| HIGHEST DAILY MEAN       | 10500                  | Mar 15              | 39800                   |
| LOWEST DAILY MEAN        | 105                    | Sep 25              | 65                      |
| ANNUAL SEVEN-DAY MINIMUM | 108                    | Sep 22              | 71                      |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 5160                    |
| INSTANTANEOUS PEAK STAGE |                        |                     | 15.59                   |
| INSTANTANEOUS LOW FLOW   |                        |                     | 63                      |
| ANNUAL RUNOFF (CFSM)     | .99                    | .43                 | 1.86                    |
| ANNUAL RUNOFF (INCHES)   | 13.40                  | 5.84                | 25.21                   |
| 10 PERCENT EXCEEDS       | 1180                   | 602                 | 2850                    |
| 50 PERCENT EXCEEDS       | 323                    | 212                 | 699                     |
| 90 PERCENT EXCEEDS       | 169                    | 82                  | 230                     |

## 02479300 RED CREEK AT VESTRY, MS

LOCATION.--Lat 30°44'08", long 88°46'41", in SW1/4 SW1/4 sec.34, T.3 S., R.8 W., St. Stephens Meridian, George County, Hydrologic Unit 03170007, located on downstream side of right main pile cluster of bridge on county highway, 0.5 mi north of Vestry, and 1.1 mi upstream from Little Red Creek.

DRAINAGE AREA.--441 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1958 to current year.

REVISED RECORDS.--WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 20.10 ft above sea level.

REMARKS.--No estimated daily discharge. Records good. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Mar. 20 | 1115 | *1,860                            | *11.89              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|-------|------|------|------|------|------|------|
| 1     | 138  | 232  | 185  | 218  | 259  | 277   | 289  | 135  | 88   | 164  | 94   | 78   |
| 2     | 136  | 455  | 180  | 210  | 243  | 239   | 256  | 132  | 87   | 152  | 125  | 86   |
| 3     | 147  | 344  | 177  | 206  | 227  | 212   | 239  | 131  | 86   | 138  | 139  | 88   |
| 4     | 140  | 268  | 173  | 210  | 214  | 196   | 481  | 144  | 87   | 119  | 165  | 92   |
| 5     | 138  | 224  | 176  | 247  | 203  | 187   | 546  | 141  | 85   | 106  | 147  | 86   |
| 6     | 130  | 199  | 172  | 332  | 196  | 181   | 461  | 137  | 90   | 98   | 126  | 82   |
| 7     | 124  | 183  | 168  | 326  | 190  | 173   | 363  | 132  | 92   | 91   | 118  | 85   |
| 8     | 127  | 172  | 161  | 278  | 186  | 168   | 291  | 126  | 88   | 87   | 106  | 92   |
| 9     | 175  | 164  | 160  | 252  | 185  | 164   | 247  | 122  | 85   | 85   | 100  | 107  |
| 10    | 454  | 157  | 160  | 335  | 184  | 160   | 218  | 119  | 84   | 82   | 106  | 124  |
| 11    | 887  | 153  | 158  | 544  | 183  | 160   | 201  | 116  | 82   | 82   | 122  | 134  |
| 12    | 1130 | 150  | 158  | 468  | 181  | 185   | 189  | 113  | 81   | 82   | 145  | 140  |
| 13    | 753  | 147  | 184  | 378  | 179  | 237   | 194  | 112  | 79   | 80   | 142  | 133  |
| 14    | 431  | 145  | 226  | 317  | 514  | 220   | 339  | 111  | 80   | 78   | 139  | 115  |
| 15    | 315  | 145  | 251  | 279  | 413  | 206   | 495  | 108  | 82   | 78   | 126  | 122  |
| 16    | 260  | 143  | 247  | 253  | 279  | 193   | 361  | 103  | 90   | 82   | 109  | 112  |
| 17    | 229  | 140  | 219  | 234  | 234  | 192   | 289  | 101  | 89   | 90   | 98   | 98   |
| 18    | 206  | 139  | 207  | 222  | 213  | 192   | 242  | 100  | 109  | 85   | 91   | 93   |
| 19    | 188  | 191  | 369  | 212  | 203  | 973   | 209  | 99   | 122  | 83   | 87   | 88   |
| 20    | 174  | 215  | 623  | 205  | 190  | 1800  | 189  | 97   | 115  | 80   | 81   | 85   |
| 21    | 165  | 217  | 699  | 196  | 181  | 1150  | 175  | 98   | 108  | 79   | 80   | 84   |
| 22    | 158  | 215  | 874  | 190  | 175  | 650   | 163  | 124  | 97   | 104  | 82   | 86   |
| 23    | 153  | 211  | 719  | 192  | 169  | 454   | 155  | 132  | 88   | 163  | 96   | 100  |
| 24    | 147  | 209  | 565  | 257  | 166  | 356   | 156  | 132  | 83   | 195  | 95   | 105  |
| 25    | 142  | 206  | 415  | 365  | 164  | 299   | 163  | 115  | 81   | 140  | 99   | 101  |
| 26    | 140  | 204  | 338  | 338  | 161  | 265   | 168  | 105  | 94   | 113  | 97   | 91   |
| 27    | 138  | 202  | 296  | 288  | 187  | 248   | 159  | 99   | 113  | 97   | 83   | 87   |
| 28    | 136  | 200  | 269  | 257  | 369  | 251   | 154  | 97   | 123  | 90   | 78   | 84   |
| 29    | 134  | 195  | 252  | 247  | 326  | 320   | 147  | 95   | 161  | 85   | 103  | 81   |
| 30    | 132  | 191  | 237  | 259  | ---  | 519   | 140  | 92   | 188  | 82   | 87   | 79   |
| 31    | 135  | ---  | 226  | 265  | ---  | 368   | ---  | 89   | ---  | 84   | 77   | ---  |
| TOTAL | 7862 | 6016 | 9244 | 8580 | 6574 | 11195 | 7679 | 3557 | 2937 | 3174 | 3343 | 2938 |
| MEAN  | 254  | 201  | 298  | 277  | 227  | 361   | 256  | 115  | 97.9 | 102  | 108  | 97.9 |
| MAX   | 1130 | 455  | 874  | 544  | 514  | 1800  | 546  | 144  | 188  | 195  | 165  | 140  |
| MIN   | 124  | 139  | 158  | 190  | 161  | 160   | 140  | 89   | 79   | 78   | 77   | 78   |
| CFSM  | .58  | .45  | .68  | .63  | .51  | .82   | .58  | .26  | .22  | .23  | .24  | .22  |
| IN.   | .66  | .51  | .78  | .72  | .55  | .94   | .65  | .30  | .25  | .27  | .28  | .25  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000, BY WATER YEAR (WY)

|      | MEAN | 408  | 555  | 934  | 1304 | 1462 | 1412 | 1233 | 883  | 561  | 540  | 550  | 563 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 1801 | 1798 | 3933 | 3597 | 3478 | 3049 | 4692 | 4464 | 2159 | 1855 | 2994 | 2208 |     |
| (WY) | 1976 | 1962 | 1962 | 1998 | 1990 | 1961 | 1980 | 1991 | 1959 | 1989 | 1987 | 1998 |     |
| MIN  | 95.9 | 118  | 266  | 266  | 227  | 361  | 204  | 115  | 97.9 | 102  | 108  | 97.9 |     |
| (WY) | 1964 | 1964 | 1982 | 1981 | 2000 | 2000 | 1963 | 2000 | 2000 | 2000 | 2000 | 2000 |     |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1958 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 152418                 | 73099               |                         |
| ANNUAL MEAN              | 418                    | 200                 | 862                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 1492                    |
| LOWEST ANNUAL MEAN       |                        |                     | 200                     |
| HIGHEST DAILY MEAN       | 6620                   | Mar 16              | 25100                   |
| LOWEST DAILY MEAN        | 108                    | Sep 24              | 77                      |
| ANNUAL SEVEN-DAY MINIMUM | 109                    | Sep 22              | 81                      |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 28000                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 21.48                   |
| INSTANTANEOUS LOW FLOW   |                        |                     | 73                      |
| ANNUAL RUNOFF (CFSM)     | .95                    | .45                 | 1.96                    |
| ANNUAL RUNOFF (INCHES)   | 12.86                  | 6.17                | 26.57                   |
| 10 PERCENT EXCEEDS       | 747                    | 338                 | 1880                    |
| 50 PERCENT EXCEEDS       | 252                    | 160                 | 462                     |
| 90 PERCENT EXCEEDS       | 140                    | 85                  | 177                     |

## 02479310 PASCAGOULA RIVER AT GRAHAM FERRY, MS

LOCATION.--Lat 30°36'38", long 88°38'28", in NE1/4 SE1/4 sec.38, T.5 S., R.7 W., St. Stephens Meridian, Jackson County, Hydrologic Unit 03170006, County Code 059, at State Highway 614 bridge at Graham Ferry Mississippi, about 5 mi west southwest of Wade, Mississippi and about 34.4 mi upstream of the Gulf of Mexico.

DRAINAGE AREA.--8,204 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1993 to current year. Occasional discharge measurements since 1958.

GAGE.--Water-stage recorder and Acoustic Velocity meter. Datum of gage is sea level.

REMARKS.--Estimated daily discharges: Oct. 21-27. Records good above 8,000 ft<sup>3</sup>/s and fair below 8,000 ft<sup>3</sup>/s except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge 204,000 ft<sup>3</sup>/s, Feb. 28, 1961, gage height, 20.1 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT    | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|--------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 1590   | 2160  | 1740   | 2850   | 4720   | 3960   | 10100  | 3610  | 1440  | 2820  | 1150  | 953   |
| 2     | 1830   | 2570  | 1680   | 2690   | 4930   | 4160   | 8770   | 3370  | 1460  | 2630  | 1590  | 1030  |
| 3     | 2090   | 2940  | 1680   | 2570   | 5090   | 4150   | 7010   | 3220  | 1400  | 2030  | 1800  | 1100  |
| 4     | 2140   | 2860  | 1740   | 2750   | 4870   | 4040   | 6490   | 2990  | 1270  | 1730  | 1710  | 1200  |
| 5     | 2150   | 2580  | 1860   | 2590   | 4630   | 3790   | 9230   | 2990  | 1280  | 1610  | 1680  | 1220  |
| 6     | 1890   | 2400  | 1900   | 3830   | 4300   | 3800   | 13700  | 2900  | 1340  | 1450  | 1550  | 1110  |
| 7     | 1740   | 2190  | 1790   | 7780   | 4070   | 3560   | 18500  | 2780  | 1300  | 1320  | 1560  | 947   |
| 8     | 1730   | 2060  | 1840   | 9710   | 3880   | 3240   | 22000  | 2600  | 1270  | 1270  | 1510  | 1200  |
| 9     | 2420   | 2070  | 1760   | 10400  | 3840   | 2970   | 24400  | 2510  | 1230  | 1210  | 1400  | 1370  |
| 10    | 4450   | 2020  | 1900   | 9490   | 3690   | 2730   | 25900  | 2460  | 1310  | 1140  | 1270  | 1490  |
| 11    | 10900  | 2060  | 1800   | 8380   | 3610   | 2830   | 24900  | 2420  | 1280  | 1190  | 1350  | 1510  |
| 12    | 12800  | 1990  | 1750   | 9800   | 3500   | 2730   | 19500  | 2330  | 1220  | 1160  | 1500  | 1640  |
| 13    | 15100  | 1920  | 2030   | 12800  | 3400   | 2850   | 13100  | 2320  | 1260  | 1040  | 1730  | 1530  |
| 14    | 15500  | 1890  | 2050   | 13100  | 3790   | 3530   | 9610   | 2200  | 1230  | 1110  | 1720  | 1690  |
| 15    | 13000  | 1840  | 2710   | 11400  | 4290   | 4150   | 8310   | 2060  | 1080  | 1140  | 1540  | 1880  |
| 16    | 9380   | 1790  | 2940   | 9290   | 3840   | 4530   | 8720   | 1870  | 1100  | 1090  | 1420  | 1680  |
| 17    | 6580   | 1750  | 3160   | 8680   | 3470   | 4270   | 8930   | 1710  | 1180  | 1020  | 1300  | 1480  |
| 18    | 4870   | 1660  | 3670   | 7000   | 3310   | 3960   | 9170   | 1620  | 1460  | 1170  | 1210  | 1370  |
| 19    | 3920   | 1700  | 3900   | 6020   | 3320   | 4760   | 8000   | 1700  | 1850  | 1080  | 1060  | 1170  |
| 20    | 3490   | 1830  | 4820   | 5330   | 3110   | 9260   | 6730   | 1620  | 1840  | 1090  | 981   | 1330  |
| 21    | e3220  | 1880  | 6110   | 4840   | 2960   | 12100  | 5840   | 1640  | 1820  | 1050  | 857   | 1330  |
| 22    | e2890  | 1920  | 6900   | 4600   | 2850   | 14500  | 5120   | 1660  | 1870  | 1130  | 854   | 1280  |
| 23    | e2640  | 2040  | 7440   | 4500   | 2760   | 15600  | 4550   | 1640  | 1770  | 1170  | 882   | 1300  |
| 24    | e2460  | 1990  | 7030   | 4630   | 2790   | 15500  | 4300   | 1660  | 1740  | 1260  | 899   | 1260  |
| 25    | e2310  | 1990  | 6060   | 5050   | 2780   | 14200  | 4110   | 1770  | 1700  | 1270  | 1000  | 1190  |
| 26    | e2170  | 1920  | 5140   | 5380   | 2820   | 11700  | 4320   | 2080  | 1610  | 1140  | 1050  | 892   |
| 27    | e2070  | 1860  | 4480   | 5370   | 2880   | 9060   | 4440   | 2110  | 1580  | 1190  | 1130  | 935   |
| 28    | 2030   | 1870  | 3850   | 5170   | 3160   | 7780   | 4360   | 1950  | 1680  | 1220  | 1140  | 950   |
| 29    | 1930   | 1860  | 3480   | 5040   | 3770   | 9350   | 4090   | 1860  | 1850  | 1250  | 1140  | 912   |
| 30    | 1910   | 1860  | 3100   | 4770   | ---    | 10600  | 3820   | 1610  | 2100  | 1000  | 898   | 899   |
| 31    | 1930   | ---   | 2920   | 4590   | ---    | 10900  | ---    | 1440  | ---   | 1030  | 960   | ---   |
| TOTAL | 143130 | 61470 | 103230 | 200400 | 106430 | 210560 | 308020 | 68700 | 44520 | 41010 | 39841 | 37848 |
| MEAN  | 4617   | 2049  | 3330   | 6465   | 3670   | 6792   | 10270  | 2216  | 1484  | 1323  | 1285  | 1262  |
| MAX   | 15500  | 2940  | 7440   | 13100  | 5090   | 15600  | 25900  | 3610  | 2100  | 2820  | 1800  | 1880  |
| MIN   | 1590   | 1660  | 1680   | 2570   | 2760   | 2730   | 3820   | 1440  | 1080  | 1000  | 854   | 892   |
| CFSM  | .56    | .25   | .41    | .79    | .45    | .83    | 1.25   | .27   | .18   | .16   | .16   | .15   |
| IN.   | .65    | .28   | .47    | .91    | .48    | .95    | 1.40   | .31   | .20   | .19   | .18   | .17   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

|      | MEAN  | 6013  | 9769  | 17810 | 23370 | 24990 | 15860 | 9751  | 6916  | 5681  | 3313 | 3090 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| MAX  | 12760 | 15790 | 16850 | 56210 | 40350 | 41430 | 25440 | 25690 | 20330 | 13160 | 5102 | 8686 |
| (WY) | 1999  | 1994  | 1996  | 1998  | 1994  | 1998  | 1994  | 1997  | 1997  | 1994  | 1997 | 1998 |
| MIN  | 2417  | 2049  | 3330  | 6465  | 3670  | 6792  | 7225  | 2216  | 1484  | 1323  | 1285 | 1262 |
| (WY) | 1994  | 2000  | 2000  | 2000  | 2000  | 2000  | 1999  | 2000  | 2000  | 2000  | 2000 | 2000 |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1994 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 2855350                | 1365159             |                         |
| ANNUAL MEAN              | 7823                   | 3730                | 10870                   |
| HIGHEST ANNUAL MEAN      |                        |                     | 15580                   |
| LOWEST ANNUAL MEAN       |                        |                     | 3730                    |
| HIGHEST DAILY MEAN       | 78400                  | Mar 18              | 25900                   |
| LOWEST DAILY MEAN        | 1350                   | Sep 23              | 854                     |
| ANNUAL SEVEN-DAY MINIMUM | 1420                   | Sep 22              | 932                     |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 26200                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 13.51                   |
| INSTANTANEOUS LOW FLOW   |                        |                     | 2.9                     |
| ANNUAL RUNOFF (CFSM)     | .95                    | .45                 | 1.33                    |
| ANNUAL RUNOFF (INCHES)   | 12.95                  | 6.19                | 18.01                   |
| 10 PERCENT EXCEEDS       | 14600                  | 9090                | 27600                   |
| 50 PERCENT EXCEEDS       | 3380                   | 2100                | 5270                    |
| 90 PERCENT EXCEEDS       | 1750                   | 1140                | 1940                    |

e Estimated



## PASCAGOULA RIVER BASIN

02479560 ESCATAWPA RIVER NEAR AGRICOLA, MS

LOCATION.--Lat 30°48'12", long 88°27'31", in SW1/4SW1/4 sec. 2, T. 3 S., R. 5 W., George County, Miss., Hydrologic Unit 03170008, near left bank on downstream side of bridge on County Road 612, 2.5 mi west of Alabama-Mississippi State line, 3.7 mi east of Agricola, Miss., 4.8 mi downstream of old gage at Escatawpa River near Wilmer, Ala, and 6.7 mi west of Wilmer.

DRAINAGE AREA.--562 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORD.--WDR AL-84-1: Drainage area. WDR AL-98-1: 1983.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Aug. 10-14, Sept. 14, 16-30. Records good except for periods of estimated record, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1929 reached an elevation of approximately 72 ft above sea level, as determined from historical data. Peak discharge of this flood is unknown but probably has not been exceeded since 1929.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC   | JAN   | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|-------|------|-------|-------|------|-------|-------|------|------|------|------|------|
| 1     | 209   | 193  | 145   | 271   | 343  | 470   | 1150  | 177  | 83   | 111  | 238  | 69   |
| 2     | 178   | 218  | 145   | 260   | 323  | 388   | 924   | 163  | 82   | 97   | 217  | 103  |
| 3     | 156   | 201  | 146   | 254   | 300  | 325   | 710   | 154  | 81   | 89   | 210  | 97   |
| 4     | 145   | 181  | 147   | 280   | 283  | 288   | 833   | 146  | 82   | 85   | 216  | 97   |
| 5     | 140   | 170  | 170   | 320   | 271  | 306   | 1150  | 140  | 83   | 82   | 186  | 83   |
| 6     | 133   | 165  | 216   | 331   | 254  | 362   | 1000  | 135  | 92   | 77   | 141  | 85   |
| 7     | 132   | 161  | 208   | 353   | 246  | 379   | 813   | 129  | 94   | 74   | 116  | 97   |
| 8     | 163   | 157  | 192   | 357   | 240  | 379   | 682   | 125  | 85   | 73   | 101  | 140  |
| 9     | 1240  | 156  | 182   | 333   | 239  | 333   | 560   | 120  | 81   | 74   | 97   | 142  |
| 10    | 2850  | 155  | 189   | 512   | 235  | 270   | 456   | 117  | 79   | 77   | e120 | 125  |
| 11    | 3730  | 154  | 196   | 637   | 238  | 269   | 377   | 115  | 77   | 78   | e200 | 137  |
| 12    | 2340  | 152  | 190   | 661   | 228  | 314   | 314   | 112  | 75   | 86   | e160 | 141  |
| 13    | 1230  | 150  | 218   | 594   | 225  | 303   | 361   | 111  | 76   | 73   | e110 | 180  |
| 14    | 799   | 149  | 336   | 494   | 471  | 357   | 964   | 123  | 76   | 67   | e97  | e220 |
| 15    | 539   | 151  | 326   | 407   | 701  | 343   | 832   | 120  | 78   | 65   | 90   | 170  |
| 16    | 393   | 145  | 259   | 349   | 495  | 308   | 850   | 109  | 87   | 65   | 84   | e130 |
| 17    | 316   | 144  | 219   | 313   | 371  | 275   | 682   | 105  | 90   | 64   | 78   | e110 |
| 18    | 272   | 143  | 229   | 289   | 318  | 247   | 496   | 102  | 112  | 69   | 73   | e100 |
| 19    | 243   | 144  | 573   | 273   | 287  | 1030  | 383   | 101  | 136  | 69   | 69   | e95  |
| 20    | 223   | 157  | 726   | 261   | 259  | 2890  | 306   | 101  | 105  | 66   | 65   | e90  |
| 21    | 210   | 188  | 1060  | 249   | 240  | 2960  | 250   | 99   | 99   | 89   | 64   | e85  |
| 22    | 199   | 181  | 1350  | 239   | 226  | 2220  | 214   | 101  | 89   | 125  | 64   | e120 |
| 23    | 191   | 179  | 1020  | 250   | 217  | 1810  | 193   | 99   | 83   | 87   | 82   | e100 |
| 24    | 181   | 173  | 747   | 400   | 213  | 1410  | 200   | 95   | 81   | 82   | 85   | e95  |
| 25    | 175   | 166  | 561   | 548   | 208  | 999   | 242   | 93   | 95   | 77   | 71   | e90  |
| 26    | 172   | 163  | 455   | 553   | 206  | 776   | 294   | 91   | 100  | 70   | 66   | e86  |
| 27    | 169   | 158  | 391   | 493   | 272  | 670   | 339   | 89   | 101  | 77   | 63   | e84  |
| 28    | 166   | 155  | 349   | 433   | 506  | 863   | 300   | 91   | 101  | 82   | 66   | e82  |
| 29    | 164   | 152  | 318   | 393   | 529  | 1140  | 245   | 101  | 132  | 70   | 74   | e80  |
| 30    | 161   | 148  | 303   | 365   | ---  | 1590  | 202   | 91   | 149  | 67   | 67   | e78  |
| 31    | 160   | ---  | 283   | 358   | ---  | 1440  | ---   | 86   | ---  | 102  | 62   | ---  |
| TOTAL | 17379 | 4909 | 11849 | 11830 | 8944 | 25714 | 16322 | 3541 | 2784 | 2469 | 3432 | 3311 |
| MEAN  | 561   | 164  | 382   | 382   | 308  | 829   | 544   | 114  | 92.8 | 79.6 | 111  | 110  |
| MAX   | 3730  | 218  | 1350  | 661   | 701  | 2960  | 1150  | 177  | 149  | 125  | 238  | 220  |
| MIN   | 132   | 143  | 145   | 239   | 206  | 247   | 193   | 86   | 75   | 64   | 62   | 69   |
| CFSM  | 1.00  | .29  | .68   | .68   | .55  | 1.48  | .97   | .20  | .17  | .14  | .20  | .20  |
| IN.   | 1.15  | .32  | .78   | .78   | .59  | 1.70  | 1.08  | .23  | .18  | .16  | .23  | .22  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

|      | MEAN | 576  | 844  | 1181 | 1821 | 2025 | 2035 | 1712 | 1290 | 747  | 637  | 554  | 718 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 3528 | 2587 | 2597 | 4452 | 4280 | 4383 | 5986 | 6818 | 2572 | 1668 | 2675 | 2386 |     |
| (WY) | 1999 | 1980 | 1983 | 1998 | 1990 | 1979 | 1983 | 1991 | 1978 | 1994 | 1975 | 1974 |     |
| MIN  | 126  | 152  | 364  | 365  | 308  | 742  | 490  | 114  | 92.8 | 79.6 | 111  | 110  |     |
| (WY) | 1982 | 1982 | 1982 | 1981 | 2000 | 1982 | 1999 | 2000 | 2000 | 2000 | 2000 | 2000 |     |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1974 - 2000

|                          |        |        |       |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 260680 | 112484 |       |
| ANNUAL MEAN              | 714    | 307    | 1174  |
| HIGHEST ANNUAL MEAN      |        |        | 1922  |
| LOWEST ANNUAL MEAN       |        |        | 307   |
| HIGHEST DAILY MEAN       | 8070   | Feb 4  | 26800 |
| LOWEST DAILY MEAN        | 119    | Sep 26 | 62    |
| ANNUAL SEVEN-DAY MINIMUM | 123    | Sep 21 | 66    |
| INSTANTANEOUS PEAK FLOW  |        |        | 3900  |
| INSTANTANEOUS PEAK STAGE |        |        | 13.09 |
| ANNUAL RUNOFF (CFSM)     | 1.27   | .55    | 2.09  |
| ANNUAL RUNOFF (INCHES)   | 17.25  | 7.45   | 28.38 |
| 10 PERCENT EXCEEDS       | 1440   | 674    | 2690  |
| 50 PERCENT EXCEEDS       | 298    | 172    | 611   |
| 90 PERCENT EXCEEDS       | 148    | 78     | 184   |

e Estimated

## 02481000 BILOXI RIVER AT WORTHAM, MS

LOCATION.--Lat 30°33'30", long 89°07'10", in NW1/4 NE1/4 sec.6, T.6 S., R.11 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, on downstream side of right main pier of upstream bridge of dual bridges on U.S. Highway 49, 0.8 mi east of Wortham, 1.3 mi downstream from Illinois Central Railroad bridge, 1.1 mi upstream from Saucier Creek, 4.2 mi north of Lyman, and 18.8 mi upstream from mouth.

DRAINAGE AREA.--96.2 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WDR MS-89-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 19.18 ft Mississippi Department of Transportation datum. Prior to Oct. 1, 1977, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Oct. 1-6, 19-31, Nov. 7-15, Jan. 3, Apr. 28 - May 3, 5-8, and May 13-16. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1948 reached a stage of 25.3 ft present datum, from information by Mississippi Department of Transportation. Floods in 1916 and 1928 reached approximately the same stage and were at least 8.5 ft higher than that of Sept. 18, 1957, at a point about 1 mi upstream, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 14 | 0445 | *1,100                            | *6.79               |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN  | FEB  | MAR  | APR  | MAY   | JUN  | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|------|------|------|------|-------|------|-------|-------|-------|
| 1     | e4.6  | 39    | 4.4   | 12   | 36   | 41   | 77   | e9.1  | 2.2  | 2.7   | 143   | 4.9   |
| 2     | e4.4  | 26    | 4.4   | 14   | 31   | 30   | 50   | e7.8  | 2.2  | 2.4   | 38    | 5.5   |
| 3     | e4.3  | 13    | 4.4   | e16  | 26   | 25   | 47   | e6.5  | 2.2  | 2.1   | 16    | 6.4   |
| 4     | e4.1  | 8.4   | 4.4   | 18   | 24   | 21   | 259  | 7.8   | 2.2  | 1.9   | 7.7   | 2.9   |
| 5     | e3.9  | 6.6   | 5.0   | 23   | 22   | 19   | 209  | e10   | 2.2  | 1.8   | 5.3   | 2.0   |
| 6     | e3.8  | 5.5   | 5.7   | 23   | 19   | 17   | 116  | e7.6  | 2.5  | 1.6   | 3.9   | 2.1   |
| 7     | 3.8   | e4.9  | 7.1   | 21   | 18   | 15   | 77   | e6.2  | 2.6  | 1.5   | 3.0   | 2.0   |
| 8     | 5.6   | e4.8  | 6.7   | 18   | 18   | 14   | 68   | e5.2  | 2.4  | 1.5   | 2.6   | 7.9   |
| 9     | 46    | e4.7  | 6.0   | 17   | 17   | 13   | 78   | 4.8   | 2.4  | 1.5   | 2.4   | 22    |
| 10    | 86    | e4.6  | 6.2   | 184  | 17   | 12   | 64   | 4.2   | 2.4  | 1.5   | 4.8   | 7.8   |
| 11    | 70    | e4.5  | 6.2   | 160  | 17   | 12   | 56   | 3.9   | 2.5  | 1.6   | 20    | 18    |
| 12    | 38    | e4.3  | 6.6   | 89   | 16   | 23   | 31   | 3.8   | 3.0  | 1.5   | 44    | 15    |
| 13    | 22    | e4.2  | 29    | 54   | 25   | 26   | 136  | e4.0  | 4.0  | 1.4   | 18    | 16    |
| 14    | 15    | e4.1  | 26    | 38   | 250  | 24   | 778  | e3.8  | 2.7  | 1.6   | 11    | 72    |
| 15    | 10    | e4.0  | 16    | 31   | 142  | 21   | 220  | e3.7  | 2.9  | 2.9   | 17    | 48    |
| 16    | 7.8   | 4.0   | 11    | 27   | 71   | 21   | 132  | e3.5  | 2.7  | 1.9   | 4.9   | 24    |
| 17    | 6.5   | 4.0   | 9.6   | 23   | 47   | 26   | 87   | 3.4   | 2.8  | 1.8   | 3.2   | 11    |
| 18    | 5.5   | 3.9   | 16    | 23   | 38   | 25   | 56   | 3.2   | 2.9  | 1.6   | 2.6   | 5.2   |
| 19    | e4.7  | 4.0   | 98    | 21   | 32   | 501  | 38   | 3.3   | 2.9  | 1.4   | 2.4   | 3.5   |
| 20    | e4.6  | 4.0   | 61    | 19   | 26   | 622  | 28   | 3.5   | 3.3  | 1.4   | 2.2   | 2.8   |
| 21    | e4.4  | 4.0   | 193   | 17   | 22   | 223  | 23   | 3.1   | 3.2  | 1.4   | 2.1   | 2.4   |
| 22    | e4.3  | 4.2   | 138   | 16   | 19   | 132  | 19   | 3.8   | 3.0  | 1.4   | 2.2   | 2.4   |
| 23    | e4.2  | 4.4   | 68    | 16   | 18   | 105  | 15   | 3.7   | 2.6  | 1.4   | 2.2   | 2.4   |
| 24    | e4.0  | 4.4   | 38    | 51   | 17   | 97   | 16   | 3.8   | 2.4  | 1.4   | 2.0   | 2.4   |
| 25    | e3.9  | 4.5   | 27    | 81   | 16   | 79   | 20   | 3.2   | 2.3  | 1.3   | 1.9   | 2.3   |
| 26    | e3.8  | 4.6   | 21    | 60   | 16   | 68   | 20   | 2.9   | 4.0  | 1.3   | 1.8   | 2.0   |
| 27    | e3.9  | 4.6   | 18    | 41   | 21   | 69   | 15   | 2.9   | 3.8  | 1.2   | 1.8   | 1.8   |
| 28    | e3.8  | 4.6   | 16    | 34   | 80   | 71   | e13  | 2.7   | 3.5  | 1.2   | 1.9   | 1.7   |
| 29    | e3.8  | 4.6   | 14    | 36   | 60   | 70   | e12  | 2.6   | 4.0  | 1.2   | 2.0   | 1.6   |
| 30    | e3.8  | 4.6   | 13    | 40   | ---  | 227  | e10  | 2.4   | 3.4  | 1.3   | 1.9   | 1.6   |
| 31    | e6.7  | ---   | 12    | 41   | ---  | 141  | ---  | 2.2   | ---  | 95    | 2.0   | ---   |
| TOTAL | 397.2 | 203.0 | 891.7 | 1264 | 1161 | 2790 | 2770 | 138.6 | 85.2 | 143.7 | 373.8 | 299.6 |
| MEAN  | 12.8  | 6.77  | 28.8  | 40.8 | 40.0 | 90.0 | 92.3 | 4.47  | 2.84 | 4.64  | 12.1  | 9.99  |
| MAX   | 86    | 39    | 193   | 184  | 250  | 622  | 778  | 10    | 4.0  | 95    | 143   | 72    |
| MIN   | 3.8   | 3.9   | 4.4   | 12   | 16   | 12   | 10   | 2.2   | 2.2  | 1.2   | 1.8   | 1.6   |
| CFSM  | .13   | .07   | .30   | .42  | .42  | .94  | .96  | .05   | .03  | .05   | .13   | .10   |
| IN.   | .15   | .08   | .34   | .49  | .45  | 1.08 | 1.07 | .05   | .03  | .06   | .14   | .12   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

|      | MEAN | 69.9 | 117  | 220  | 320  | 343  | 330  | 261  | 183  | 106  | 122  | 133  | 158 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 606  | 466  | 625  | 1091 | 986  | 920  | 997  | 1129 | 587  | 592  | 715  | 768  |     |
| (WY) | 1986 | 1980 | 1962 | 1998 | 1983 | 1980 | 1980 | 1991 | 1959 | 1989 | 1987 | 1998 |     |
| MIN  | 1.95 | 4.37 | 24.1 | 15.9 | 40.0 | 34.1 | 24.0 | 4.47 | 2.84 | 4.64 | 7.05 | 5.35 |     |
| (WY) | 1964 | 1982 | 1959 | 1981 | 2000 | 1955 | 1963 | 2000 | 2000 | 2000 | 1954 | 1954 |     |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1953 - 2000

|                          |         |         |       |
|--------------------------|---------|---------|-------|
| ANNUAL TOTAL             | 30358.3 | 10517.8 | 196   |
| ANNUAL MEAN              | 83.2    | 28.7    | 364   |
| HIGHEST ANNUAL MEAN      |         |         | 28.7  |
| LOWEST ANNUAL MEAN       |         |         | 1983  |
| HIGHEST DAILY MEAN       | 2660    | Mar 14  | 9860  |
| LOWEST DAILY MEAN        | 3.8     | Oct 6   | 1.2   |
| ANNUAL SEVEN-DAY MINIMUM | 3.9     | Oct 24  | 1.3   |
| INSTANTANEOUS PEAK FLOW  |         |         | 13500 |
| INSTANTANEOUS PEAK STAGE |         |         | 28.94 |
| INSTANTANEOUS LOW FLOW   |         |         | 1.1   |
| ANNUAL RUNOFF (CFSM)     | .86     | .30     | 2.04  |
| ANNUAL RUNOFF (INCHES)   | 11.74   | 4.07    | 27.71 |
| 10 PERCENT EXCEEDS       | 185     | 70      | 450   |
| 50 PERCENT EXCEEDS       | 25      | 6.5     | 65    |
| 90 PERCENT EXCEEDS       | 4.6     | 2.0     | 7.9   |

e Estimated

## WOLF RIVER BASIN

02481510 WOLF RIVER NEAR LONDON, MS

LOCATION.--Lat 30°29'01", long 89°16'19", in NE1/4 NE1/4 sec.34, T.6 S., R.13 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, on left bank at downstream side of bridge on county highway, 0.3 mi downstream from Sandy Creek, 1.3 mi upstream from Pole Branch, and 11.1 mi northwest of Landon.

DRAINAGE AREA.--308 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1971 to current year. Occasional discharge measurements, water years 1964-66.

GAGE.--Water-stage recorder. Datum of gage is 14.34 ft above sea level. Prior to Oct. 18, 1978, at datum 7.00 ft higher. Oct. 18, 1978 to Oct. 15, 1990, at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 11-14, Dec. 5-13, Jan. 1-3, May 8-15 and Sept. 5-30. Records good except for estimated discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 27, 1964, reached a stage of 21.06 ft. The flood of 1920 reached a stage about 5 ft higher than that of April 1964, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Oct. 10 | 1945 | *770                              | *7.80               |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 34   | 48   | 41   | e67  | 132  | 125  | 149  | 36   | 17   | 43   | 87   | 14   |
| 2     | 35   | 51   | 53   | e60  | 115  | 100  | 114  | 36   | 16   | 44   | 49   | 14   |
| 3     | 46   | 53   | 90   | e70  | 104  | 85   | 101  | 38   | 15   | 36   | 33   | 13   |
| 4     | 41   | 48   | 57   | 83   | 93   | 75   | 281  | 36   | 15   | 29   | 27   | 12   |
| 5     | 37   | 46   | e42  | 143  | 84   | 66   | 342  | 34   | 15   | 24   | 23   | e13  |
| 6     | 38   | 44   | e38  | 206  | 77   | 63   | 237  | 34   | 16   | 21   | 22   | e20  |
| 7     | 36   | 42   | e35  | 167  | 73   | 60   | 162  | 32   | 17   | 19   | 19   | e60  |
| 8     | 36   | 41   | e52  | 130  | 70   | 58   | 121  | e30  | 17   | 17   | 18   | e45  |
| 9     | 106  | 40   | e80  | 116  | 68   | 55   | 92   | e28  | 17   | 15   | 20   | e35  |
| 10    | 489  | 39   | e50  | 272  | 67   | 53   | 74   | e26  | 17   | 14   | 30   | e27  |
| 11    | 665  | e39  | e45  | 349  | 69   | 53   | 63   | e24  | 15   | 13   | 56   | e45  |
| 12    | 442  | e39  | e40  | 276  | 69   | 77   | 58   | e22  | 16   | 12   | 60   | e68  |
| 13    | 243  | e39  | e81  | 197  | 73   | 92   | 95   | e20  | 17   | 12   | 56   | e92  |
| 14    | 160  | e38  | 92   | 155  | 177  | 82   | 198  | e18  | 17   | 12   | 36   | e70  |
| 15    | 118  | 38   | 112  | 132  | 131  | 80   | 122  | e17  | 19   | 11   | 28   | e48  |
| 16    | 93   | 38   | 99   | 115  | 103  | 78   | 113  | 16   | 18   | 11   | 24   | e33  |
| 17    | 77   | 37   | 79   | 100  | 87   | 82   | 93   | 16   | 43   | 12   | 27   | e24  |
| 18    | 66   | 37   | 79   | 89   | 80   | 88   | 71   | 16   | 43   | 17   | 28   | e19  |
| 19    | 58   | 38   | 151  | 83   | 74   | 249  | 58   | 16   | 36   | 21   | 19   | e18  |
| 20    | 53   | 38   | 361  | 78   | 67   | 429  | 51   | 16   | 34   | 18   | 18   | e17  |
| 21    | 48   | 39   | 413  | 73   | 62   | 360  | 47   | 17   | 31   | 31   | 16   | e15  |
| 22    | 45   | 39   | 507  | 71   | 58   | 240  | 44   | 20   | 26   | 53   | 14   | e15  |
| 23    | 43   | 39   | 376  | 72   | 56   | 170  | 43   | 162  | 22   | 40   | 16   | e14  |
| 24    | 42   | 43   | 244  | 135  | 55   | 126  | 45   | 110  | 19   | 27   | 18   | e19  |
| 25    | 42   | 43   | 172  | 224  | 54   | 102  | 45   | 58   | 20   | 23   | 15   | e18  |
| 26    | 41   | 43   | 136  | 191  | 54   | 87   | 44   | 37   | 62   | 20   | 15   | e18  |
| 27    | 40   | 43   | 116  | 145  | 77   | 83   | 42   | 29   | 87   | 18   | 13   | e18  |
| 28    | 39   | 43   | 100  | 128  | 144  | 91   | 40   | 24   | 64   | 18   | 12   | e18  |
| 29    | 39   | 43   | 90   | 130  | 153  | 111  | 38   | 21   | 41   | 18   | 13   | e17  |
| 30    | 39   | 41   | 83   | 143  | ---  | 351  | 37   | 19   | 43   | 17   | 12   | e17  |
| 31    | 40   | ---  | 79   | 144  | ---  | 248  | ---  | 18   | ---  | 28   | 12   | ---  |
| TOTAL | 3331 | 1249 | 3993 | 4344 | 2526 | 4019 | 3020 | 1026 | 835  | 694  | 836  | 856  |
| MEAN  | 107  | 41.6 | 129  | 140  | 87.1 | 130  | 101  | 33.1 | 27.8 | 22.4 | 27.0 | 28.5 |
| MAX   | 665  | 53   | 507  | 349  | 177  | 429  | 342  | 162  | 87   | 53   | 87   | 92   |
| MIN   | 34   | 37   | 35   | 60   | 54   | 53   | 37   | 16   | 15   | 11   | 12   | 12   |
| MED   | 43   | 40   | 83   | 130  | 74   | 87   | 72   | 24   | 18   | 18   | 20   | 18   |
| CFSM  | .35  | .14  | .42  | .45  | .28  | .42  | .33  | .11  | .09  | .07  | .09  | .09  |
| IN.   | .40  | .15  | .48  | .52  | .31  | .49  | .36  | .12  | .10  | .08  | .10  | .10  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

|      | MEAN | 221  | 378  | 640  | 1035 | 1080 | 1058 | 942  | 667  | 325  | 404  | 381  | 415 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 1231 | 957  | 1511 | 3291 | 2489 | 2424 | 3008 | 2641 | 1082 | 1513 | 1778 | 1676 |     |
| (WY) | 1986 | 1990 | 1984 | 1998 | 1990 | 1980 | 1991 | 1989 | 1979 | 1975 | 1973 |      |     |
| MIN  | 52.1 | 41.6 | 129  | 122  | 87.1 | 130  | 101  | 33.1 | 27.8 | 22.4 | 27.0 | 28.5 |     |
| (WY) | 1982 | 2000 | 2000 | 1981 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |     |

SUMMARY STATISTICS

|                          | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1971 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 86321                  | 26729               | 625                     |
| ANNUAL MEAN              | 236                    | 73.0                | 943                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 73.0                    |
| LOWEST ANNUAL MEAN       |                        |                     | 1980                    |
| HIGHEST DAILY MEAN       | 6300                   | Mar 15              | 18700                   |
| LOWEST DAILY MEAN        | 30                     | Sep 23              | 11                      |
| ANNUAL SEVEN-DAY MINIMUM | 31                     | Sep 22              | 12                      |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 24500                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 28.85                   |
| ANNUAL RUNOFF (CFSM)     | .77                    |                     | 2.03                    |
| ANNUAL RUNOFF (INCHES)   | 10.43                  |                     | 27.57                   |
| 10 PERCENT EXCEEDS       | 479                    | 150                 | 1460                    |
| 50 PERCENT EXCEEDS       | 106                    | 44                  | 266                     |
| 90 PERCENT EXCEEDS       | 39                     | 16                  | 73                      |

e Estimated

## 02481880 PEARL RIVER AT BURNSIDE, MS

LOCATION.--Lat 32°50'29", long 89°05'51", in NE1/4 NE1/4 sec.6, T.11 N., R.12 E., Choctaw Meridian, Neshoba County, Hydrologic Unit 03180001, on right bank at downstream edge of roadway at bridge on State Highway 15, 2.4 mi upstream from Illinois Central and Gulf railroad, 4.8 mi north of Philadelphia and 0.9 mi south of Burnside.

DRAINAGE AREA.--520 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1981 to current year. Daily mean gage heights published since October 1984.

GAGE.--Water-stage recorder. Datum of gage is 376.30 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 17 - Dec. 7. Records good except for estimated daily discharges, which are poor. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 70,600 ft<sup>3</sup>/s, Apr. 13, 1979, gage height, 23.31 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Apr. 4 | 2030 | *17,800                        | *17.75           | No other peak greater than base discharge. |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN  | FEB  | MAR  | APR   | MAY   | JUN   | JUL    | AUG    | SEP   |
|-------|-------|-------|--------|------|------|------|-------|-------|-------|--------|--------|-------|
| 1     | 9.7   | e8.4  | e9.8   | 29   | 179  | 103  | 610   | 66    | 4.3   | 26     | .97    | .39   |
| 2     | 7.2   | e8.8  | e10.7  | 28   | 179  | 104  | 851   | 54    | 3.8   | 20     | 2.2    | .40   |
| 3     | 6.2   | e7.6  | e13.2  | 29   | 169  | 104  | 6320  | 42    | 3.4   | 11     | 2.1    | .35   |
| 4     | 6.0   | e7.0  | e16.1  | 73   | 153  | 95   | 16100 | 39    | 3.2   | 6.4    | 1.5    | .34   |
| 5     | 6.2   | e6.8  | e14.4  | 68   | 137  | 85   | 15000 | 44    | 5.6   | 4.6    | 1.3    | .32   |
| 6     | 5.4   | e6.6  | e14.1  | 101  | 126  | 75   | 9230  | 55    | 7.8   | 6.2    | 1.3    | .34   |
| 7     | 5.6   | e6.5  | e17.2  | 109  | 112  | 68   | 5220  | 55    | 8.7   | 6.4    | 1.7    | .35   |
| 8     | 6.6   | e7.1  | 26     | 100  | 100  | 60   | 3230  | 56    | 6.6   | 5.1    | 2.2    | .39   |
| 9     | 12    | e8.4  | 37     | 98   | 89   | 55   | 2290  | 51    | 6.5   | 4.1    | 2.0    | .58   |
| 10    | 22    | e9.0  | 47     | 109  | 79   | 54   | 1730  | 42    | 5.8   | 3.8    | 5.4    | .62   |
| 11    | 15    | e9.4  | 52     | 128  | 72   | 122  | 1300  | 34    | 4.9   | 3.1    | 14     | .46   |
| 12    | 9.0   | e9.0  | 56     | 123  | 66   | 213  | 1170  | 27    | 4.0   | 2.6    | 5.8    | .46   |
| 13    | 6.7   | e8.4  | 76     | 117  | 61   | 286  | 1190  | 24    | 3.4   | 2.3    | 11     | 2.8   |
| 14    | 6.0   | e8.0  | 37     | 126  | 79   | 307  | 1080  | 21    | 3.2   | 2.3    | 17     | 2.7   |
| 15    | 8.5   | e7.8  | 64     | 134  | 89   | 304  | 1280  | 19    | 2.9   | 1.9    | 10     | 1.8   |
| 16    | 7.3   | e8.2  | 53     | 137  | 95   | 299  | 1640  | 19    | 2.7   | 1.7    | 6.4    | 1.3   |
| 17    | e6.8  | e9.0  | 38     | 132  | 96   | 278  | 1500  | 15    | 2.5   | 1.5    | 4.2    | .42   |
| 18    | e6.4  | e10.5 | 29     | 120  | 96   | 239  | 1210  | 12    | 2.3   | 1.5    | 2.6    | .43   |
| 19    | e6.1  | e14.5 | 24     | 109  | 114  | 265  | 945   | 9.6   | 3.2   | 1.2    | 1.4    | .46   |
| 20    | e5.8  | e13.1 | 22     | 101  | 132  | 456  | 756   | 8.4   | 11    | 1.0    | 1.0    | .29   |
| 21    | e5.6  | e12.8 | 21     | 89   | 129  | 528  | 594   | 9.6   | 11    | .99    | .82    | .40   |
| 22    | e5.5  | e14.1 | 29     | 80   | 116  | 584  | 434   | 9.3   | 6.4   | .86    | .69    | .42   |
| 23    | e5.4  | e16.7 | 35     | 74   | 105  | 582  | 316   | 8.5   | 4.5   | .79    | .60    | .40   |
| 24    | e5.4  | e20.6 | 47     | 71   | 100  | 539  | 245   | 7.7   | 3.6   | .73    | .56    | .41   |
| 25    | e5.4  | e21.0 | 48     | 67   | 94   | 493  | 190   | 8.0   | 3.2   | .66    | .51    | .78   |
| 26    | e5.6  | e16.8 | 43     | 64   | 87   | 430  | 150   | 7.8   | 5.3   | .63    | .56    | .73   |
| 27    | e6.2  | e14.0 | 41     | 62   | 103  | 365  | 126   | 6.7   | 5.7   | .63    | .84    | 1.8   |
| 28    | e6.6  | e12.0 | 39     | 69   | 101  | 322  | 108   | 6.4   | 19    | .65    | .72    | 1.0   |
| 29    | e6.2  | e10.8 | 37     | 89   | 96   | 299  | 90    | 6.7   | 14    | .72    | .51    | .30   |
| 30    | e10.5 | e9.9  | 35     | 114  | ---  | 403  | 76    | 6.1   | 13    | .73    | .45    | .37   |
| 31    | e10.0 | ---   | 33     | 157  | ---  | 589  | ---   | 5.1   | ---   | .75    | .47    | ---   |
| TOTAL | 236.9 | 322.8 | 1064.5 | 2907 | 3154 | 8706 | 74981 | 774.9 | 181.5 | 120.84 | 100.80 | 21.81 |
| MEAN  | 7.64  | 10.8  | 34.3   | 93.8 | 109  | 281  | 2499  | 25.0  | 6.05  | 3.90   | 3.25   | .73   |
| MAX   | 22    | 21    | 76     | 157  | 179  | 589  | 16100 | 66    | 19    | 26     | 17     | 2.8   |
| MIN   | 5.4   | 6.5   | 9.8    | 28   | 61   | 54   | 76    | 5.1   | 2.3   | .63    | .45    | .29   |
| CFSM  | .01   | .02   | .07    | .18  | .21  | .54  | 4.81  | .05   | .01   | .01    | .01    | .00   |
| IN.   | .02   | .02   | .08    | .21  | .23  | .62  | 5.36  | .06   | .01   | .01    | .01    | .00   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2000, BY WATER YEAR (WY)

|      | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 70.1 | 374  | 867  | 1307 | 1596 | 1229 | 1207 | 650  | 253  | 157  | 75.7 | 21.5 |      |      |      |      |      |      |      |      |
| MAX  | 295  | 1071 | 3408 | 3099 | 3661 | 3149 | 3686 | 4021 | 1148 | 906  | 342  | 123  |      |      |      |      |      |      |      |      |
| (WY) | 1995 | 1990 | 1983 | 1990 | 1983 | 1983 | 1983 | 1983 | 1997 | 1989 | 1982 | 1991 |      |      |      |      |      |      |      |      |
| MIN  | .94  | 3.65 | 7.83 | 93.8 | 109  | 281  | 70.4 | 16.7 | 2.15 | 3.90 | 2.73 | .73  |      |      |      |      |      |      |      |      |
| (WY) | 1988 | 1988 | 1988 | 2000 | 2000 | 2000 | 1986 | 1988 | 1988 | 2000 | 1999 | 2000 |      |      |      |      |      |      |      |      |

## SUMMARY STATISTICS

|                          | FOR 1999 CALENDAR YEAR |  | FOR 2000 WATER YEAR |  | WATER YEARS 1981 - 2000 |  |
|--------------------------|------------------------|--|---------------------|--|-------------------------|--|
| ANNUAL TOTAL             | 168761.9               |  | 92572.05            |  |                         |  |
| ANNUAL MEAN              | 462                    |  | 253                 |  |                         |  |
| HIGHEST ANNUAL MEAN      |                        |  |                     |  | 660                     |  |
| LOWEST ANNUAL MEAN       |                        |  |                     |  | 1732                    |  |
| HIGHEST DAILY MEAN       | 17600 Feb 1            |  | 16100 Apr 4         |  | 34600 May 21 1983       |  |
| LOWEST DAILY MEAN        | 1.1 Aug 23             |  | .29 Sep 20          |  | .29 Sep 20 2000         |  |
| ANNUAL SEVEN-DAY MINIMUM | 1.4 Aug 29             |  | .36 Sep 1           |  | .36 Sep 1 2000          |  |
| INSTANTANEOUS PEAK FLOW  |                        |  | 17800 Apr 4         |  | 37800 May 21 1983       |  |
| INSTANTANEOUS PEAK STAGE |                        |  | 17.75 Apr 4         |  | 19.77 May 21 1983       |  |
| ANNUAL RUNOFF (CFSM)     | .89                    |  | .49                 |  | 1.27                    |  |
| ANNUAL RUNOFF (INCHES)   | 12.07                  |  | 6.62                |  | 17.25                   |  |
| 10 PERCENT EXCEEDS       | 1220                   |  | 300                 |  | 1580                    |  |
| 50 PERCENT EXCEEDS       | 27                     |  | 13                  |  | 139                     |  |
| 90 PERCENT EXCEEDS       | 3.0                    |  | .73                 |  | 4.2                     |  |

e Estimated

## PEARL RIVER BASIN

02481880 PEARL RIVER AT BURNSIDE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|-----|------|------|------|-------|-------|------|------|------|------|------|
| 1    | 4.36 | --- | ---  | 5.02 | 7.49 | 6.46  | 10.67 | 5.84 | 4.34 | 5.02 | 3.89 | 3.82 |
| 2    | 4.28 | --- | ---  | 4.99 | 7.50 | 6.48  | 11.31 | 5.60 | 4.31 | 4.88 | 4.05 | 3.82 |
| 3    | 4.25 | --- | ---  | 5.01 | 7.37 | 6.47  | 14.69 | 5.35 | 4.28 | 4.64 | 4.03 | 3.80 |
| 4    | 4.26 | --- | ---  | 5.92 | 7.16 | 6.33  | 17.45 | 5.28 | 4.27 | 4.47 | 3.97 | 3.79 |
| 5    | 4.27 | --- | ---  | 5.84 | 6.95 | 6.16  | 17.22 | 5.40 | 4.39 | 4.38 | 3.94 | 3.79 |
| 6    | 4.25 | --- | ---  | 6.43 | 6.80 | 5.97  | 15.78 | 5.62 | 4.50 | 4.47 | 3.96 | 3.80 |
| 7    | 4.27 | --- | ---  | 6.55 | 6.60 | 5.84  | 14.45 | 5.62 | 4.54 | 4.47 | 4.02 | 3.80 |
| 8    | 4.32 | --- | 4.95 | 6.41 | 6.40 | 5.68  | 13.61 | 5.63 | 4.46 | 4.42 | 4.09 | 3.81 |
| 9    | 4.50 | --- | 5.20 | 6.38 | 6.23 | 5.58  | 13.09 | 5.53 | 4.46 | 4.37 | 4.07 | 3.88 |
| 10   | 4.79 | --- | 5.42 | 6.55 | 6.05 | 5.56  | 12.69 | 5.35 | 4.43 | 4.35 | 4.31 | 3.89 |
| 11   | 4.62 | --- | 5.53 | 6.84 | 5.91 | 6.70  | 12.25 | 5.17 | 4.38 | 4.30 | 4.59 | 3.84 |
| 12   | 4.46 | --- | 5.61 | 6.76 | 5.81 | 7.86  | 12.08 | 5.03 | 4.33 | 4.26 | 4.34 | 3.84 |
| 13   | 4.38 | --- | 5.98 | 6.67 | 5.69 | 8.60  | 12.10 | 4.94 | 4.29 | 4.23 | 4.51 | 4.12 |
| 14   | 4.37 | --- | 5.19 | 6.81 | 6.04 | 8.80  | 11.93 | 4.87 | 4.28 | 4.22 | 4.71 | 4.18 |
| 15   | 4.47 | --- | 5.75 | 6.91 | 6.23 | 8.77  | 12.22 | 4.83 | 4.25 | 4.17 | 4.53 | 4.09 |
| 16   | 4.44 | --- | 5.52 | 6.95 | 6.33 | 8.73  | 12.63 | 4.82 | 4.24 | 4.14 | 4.40 | 4.03 |
| 17   | ---  | --- | 5.20 | 6.88 | 6.34 | 8.53  | 12.49 | 4.72 | 4.23 | 4.11 | 4.30 | 3.83 |
| 18   | ---  | --- | 4.98 | 6.72 | 6.35 | 8.14  | 12.12 | 4.64 | 4.21 | 4.10 | 4.18 | 3.82 |
| 19   | ---  | --- | 4.87 | 6.55 | 6.63 | 8.37  | 11.67 | 4.56 | 4.27 | 4.05 | 4.05 | 3.83 |
| 20   | ---  | --- | 4.80 | 6.42 | 6.89 | 9.88  | 11.18 | 4.52 | 4.62 | 4.01 | 3.99 | 3.77 |
| 21   | ---  | --- | 4.79 | 6.22 | 6.85 | 10.29 | 10.59 | 4.56 | 4.62 | 3.99 | 3.94 | 3.82 |
| 22   | ---  | --- | 4.99 | 6.07 | 6.65 | 10.56 | 9.74  | 4.55 | 4.46 | 3.95 | 3.91 | 3.83 |
| 23   | ---  | --- | 5.13 | 5.95 | 6.49 | 10.55 | 8.87  | 4.52 | 4.37 | 3.93 | 3.89 | 3.82 |
| 24   | ---  | --- | 5.38 | 5.90 | 6.41 | 10.34 | 8.23  | 4.50 | 4.32 | 3.91 | 3.87 | 3.82 |
| 25   | ---  | --- | 5.41 | 5.83 | 6.31 | 10.10 | 7.65  | 4.51 | 4.29 | 3.88 | 3.86 | 3.92 |
| 26   | ---  | --- | 5.30 | 5.76 | 6.19 | 9.72  | 7.17  | 4.50 | 4.40 | 3.87 | 3.87 | 3.92 |
| 27   | ---  | --- | 5.25 | 5.73 | 6.45 | 9.27  | 6.84  | 4.46 | 4.43 | 3.86 | 3.95 | 3.98 |
| 28   | ---  | --- | 5.22 | 5.86 | 6.42 | 8.93  | 6.57  | 4.44 | 4.85 | 3.85 | 3.92 | 3.90 |
| 29   | ---  | --- | 5.19 | 6.22 | 6.34 | 8.73  | 6.28  | 4.46 | 4.72 | 3.86 | 3.86 | 3.66 |
| 30   | ---  | --- | 5.15 | 6.62 | ---  | 9.48  | 6.04  | 4.43 | 4.68 | 3.86 | 3.84 | 3.67 |
| 31   | ---  | --- | 5.10 | 7.21 | ---  | 10.58 | ---   | 4.39 | ---  | 3.85 | 3.85 | ---  |
| MEAN | ---  | --- | ---  | 6.26 | 6.51 | 8.18  | 11.32 | 4.92 | 4.41 | 4.19 | 4.09 | 3.86 |
| MAX  | ---  | --- | ---  | 7.21 | 7.50 | 10.58 | 17.45 | 5.84 | 4.85 | 5.02 | 4.71 | 4.18 |
| MIN  | ---  | --- | ---  | 4.99 | 5.69 | 5.56  | 6.04  | 4.39 | 4.21 | 3.85 | 3.84 | 3.66 |



## 02482000 PEARL RIVER AT EDINBURG, MS

LOCATION.--Lat 32°47'58", long 89°20'08", in SW1/4 SW1/4 sec.13, T.11 N., R.9 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, on right bank 10 ft downstream from bridge on State Highway 16 at Edinburg, 1,100 ft downstream from Hooper Mill Creek, 1.6 mi upstream from Rice Creek and at mile 387.5.

DRAINAGE AREA.--904 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1928 to current year. Daily mean gage heights published since January 1972. Gage-height records collected in same vicinity since 1908 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1504: 1929-30, 1933. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 341.67 ft above sea level. Prior to July 2, 1930, nonrecording gage at site 500 ft upstream at datum 0.12 ft higher. July 2, 1930 to Sept. 20, 1938, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Jul. 17-25. Records good except for estimated daily discharges, which are poor. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood in March 1902 reached a stage of 29.0 ft, from reports of National Weather Service.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 5,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Apr. 6 | 0800 | *18,500                        | *25.41           | No other peak greater than base discharge. |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR   | APR    | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|-------|--------|------|------|-------|-------|-------|
| 1     | 29    | 17   | 23   | 69   | 249  | 203   | 673    | 160  | 22   | 27    | 2.9   | 1.6   |
| 2     | 27    | 16   | 21   | 67   | 259  | 191   | 1390   | 142  | 21   | 24    | 3.0   | 1.5   |
| 3     | 22    | 14   | 20   | 66   | 269  | 184   | 4910   | 131  | 19   | 27    | 3.4   | 1.4   |
| 4     | 17    | 15   | 21   | 145  | 267  | 177   | 7020   | 131  | 22   | 30    | 7.6   | 1.4   |
| 5     | 14    | 14   | 24   | 172  | 255  | 167   | 14400  | 117  | 32   | 25    | 8.6   | 1.3   |
| 6     | 11    | 13   | 32   | 184  | 234  | 155   | 18100  | 125  | 36   | 20    | 7.6   | 1.3   |
| 7     | 9.8   | 12   | 31   | 160  | 215  | 143   | 15500  | 138  | 35   | 16    | 6.5   | 1.3   |
| 8     | 8.6   | 11   | 29   | 155  | 195  | 131   | 11200  | 134  | 29   | 15    | 4.8   | 1.4   |
| 9     | 19    | 11   | 30   | 192  | 177  | 121   | 7790   | 123  | 27   | 12    | 4.2   | 1.5   |
| 10    | 27    | 10   | 32   | 222  | 165  | 118   | 5850   | 112  | 24   | 11    | 5.1   | 1.5   |
| 11    | 45    | 11   | 30   | 211  | 151  | 401   | 4570   | 101  | 22   | 11    | 5.9   | 1.5   |
| 12    | 70    | 14   | 35   | 200  | 141  | 416   | 3410   | 90   | 20   | 12    | 5.8   | 2.9   |
| 13    | 57    | 14   | 209  | 199  | 134  | 434   | 2590   | 81   | 18   | 11    | 13    | 15    |
| 14    | 33    | 14   | 237  | 198  | 206  | 438   | 2170   | 74   | 17   | 9.4   | 14    | 11    |
| 15    | 21    | 13   | 236  | 201  | 202  | 420   | 1860   | 63   | 16   | 7.6   | 9.7   | 11    |
| 16    | 16    | 12   | 169  | 201  | 194  | 403   | 1600   | 56   | 15   | 6.4   | 8.6   | 10    |
| 17    | 13    | 12   | 142  | 202  | 186  | 394   | 1440   | 51   | 15   | e5.5  | 12    | 7.5   |
| 18    | 9.7   | 14   | 131  | 197  | 181  | 364   | 1430   | 47   | 14   | e4.9  | 12    | 5.1   |
| 19    | 8.5   | 15   | 129  | 196  | 227  | 471   | 1460   | 44   | 15   | e3.9  | 10    | 3.7   |
| 20    | 7.8   | 17   | 114  | 200  | 234  | 777   | 1380   | 42   | 16   | e3.8  | 8.0   | 3.2   |
| 21    | 7.6   | 27   | 115  | 185  | 225  | 742   | 1220   | 45   | 18   | e3.7  | 5.9   | 3.0   |
| 22    | 7.6   | 40   | 142  | 167  | 220  | 774   | 1030   | 44   | 20   | e3.5  | 4.4   | 2.7   |
| 23    | 7.2   | 29   | 129  | 154  | 207  | 767   | 838    | 44   | 22   | e3.4  | 3.4   | 2.7   |
| 24    | 7.1   | 28   | 113  | 144  | 190  | 741   | 645    | 40   | 21   | e3.2  | 2.8   | 2.5   |
| 25    | 6.6   | 38   | 102  | 135  | 179  | 698   | 479    | 35   | 20   | e3.1  | 2.4   | 2.3   |
| 26    | 6.5   | 56   | 97   | 126  | 171  | 646   | 364    | 31   | 90   | 3.0   | 2.3   | 2.3   |
| 27    | 6.6   | 52   | 91   | 119  | 201  | 617   | 294    | 29   | 36   | 2.9   | 2.3   | 2.6   |
| 28    | 6.8   | 40   | 83   | 140  | 215  | 578   | 251    | 29   | 38   | 2.9   | 2.0   | 2.8   |
| 29    | 8.5   | 33   | 80   | 208  | 216  | 508   | 218    | 28   | 30   | 3.0   | 1.8   | 2.5   |
| 30    | 9.3   | 27   | 76   | 242  | ---  | 600   | 187    | 26   | 26   | 2.8   | 1.7   | 2.1   |
| 31    | 7.8   | ---  | 72   | 250  | ---  | 671   | ---    | 23   | ---  | 2.9   | 1.6   | ---   |
| TOTAL | 547.0 | 639  | 2795 | 5307 | 5965 | 13450 | 114269 | 2336 | 756  | 316.9 | 183.3 | 110.6 |
| MEAN  | 17.6  | 21.3 | 90.2 | 171  | 206  | 434   | 3809   | 75.4 | 25.2 | 10.2  | 5.91  | 3.69  |
| MAX   | 70    | 56   | 237  | 250  | 269  | 777   | 18100  | 160  | 90   | 30    | 14    | 15    |
| MIN   | 6.5   | 10   | 20   | 66   | 134  | 118   | 187    | 23   | 14   | 2.8   | 1.6   | 1.3   |
| CFSM  | .02   | .02  | .10  | .19  | .23  | .48   | 4.21   | .08  | .03  | .01   | .01   | .00   |
| IN.   | .02   | .03  | .12  | .22  | .25  | .55   | 4.70   | .10  | .03  | .01   | .01   | .00   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000, BY WATER YEAR (WY)

| MEAN | 179  | 443  | 1277 | 2144 | 2613 | 2630 | 2373  | 1185 | 364  | 397  | 223  | 146  |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| MAX  | 2480 | 2702 | 8019 | 7148 | 7476 | 7188 | 10670 | 7632 | 1914 | 3830 | 1994 | 1890 |
| (WY) | 1976 | 1978 | 1962 | 1974 | 1983 | 1976 | 1979  | 1983 | 1939 | 1940 | 1975 | 1979 |
| MIN  | 4.85 | 9.63 | 61.3 | 105  | 206  | 434  | 156   | 50.1 | 8.62 | 10.2 | 5.91 | 3.69 |
| (WY) | 1988 | 1954 | 1963 | 1956 | 2000 | 2000 | 1963  | 1965 | 1988 | 2000 | 2000 | 2000 |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1928 - 2000

|                          |          |          |       |
|--------------------------|----------|----------|-------|
| ANNUAL TOTAL             | 266601.3 | 146674.8 |       |
| ANNUAL MEAN              | 730      | 401      | 1157  |
| HIGHEST ANNUAL MEAN      |          |          | 3368  |
| LOWEST ANNUAL MEAN       |          |          | 236   |
| HIGHEST DAILY MEAN       | 17700    | Feb 2    | 73500 |
| LOWEST DAILY MEAN        | 5.6      | Sep 28   | 1.3   |
| ANNUAL SEVEN-DAY MINIMUM | 6.9      | Oct 22   | 1.4   |
| INSTANTANEOUS PEAK FLOW  |          |          | 18500 |
| INSTANTANEOUS PEAK STAGE |          |          | 25.41 |
| INSTANTANEOUS LOW FLOW   |          |          | 1.2   |
| ANNUAL RUNOFF (CFSM)     | .81      |          | .44   |
| ANNUAL RUNOFF (INCHES)   | 10.97    |          | 6.04  |
| 10 PERCENT EXCEEDS       | 2060     |          | 488   |
| 50 PERCENT EXCEEDS       | 65       |          | 32    |
| 90 PERCENT EXCEEDS       | 10       |          | 3.0   |

e Estimated

## PEARL RIVER BASIN

02482000 PEARL RIVER AT EDINBURG, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1    | 2.12 | 1.85 | 2.10 | 2.80 | 4.83 | 4.33 | 7.83  | 4.00 | 1.91 | 1.95 | .96  | .78  |
| 2    | 2.09 | 1.86 | 2.04 | 2.76 | 4.93 | 4.19 | 10.83 | 3.79 | 1.87 | 1.86 | .96  | .77  |
| 3    | 1.94 | 1.78 | 2.02 | 2.74 | 5.04 | 4.11 | 19.16 | 3.67 | 1.82 | 1.95 | 1.00 | .76  |
| 4    | 1.79 | 1.80 | 2.03 | 3.74 | 5.02 | 4.02 | 21.53 | 3.67 | 1.90 | 2.02 | 1.31 | .75  |
| 5    | 1.67 | 1.77 | 2.13 | 4.07 | 4.90 | 3.92 | 24.49 | 3.48 | 2.17 | 1.88 | 1.38 | .74  |
| 6    | 1.56 | 1.73 | 2.34 | 4.20 | 4.67 | 3.78 | 25.33 | 3.59 | 2.26 | 1.72 | 1.32 | .73  |
| 7    | 1.49 | 1.71 | 2.32 | 3.92 | 4.46 | 3.65 | 24.78 | 3.75 | 2.24 | 1.60 | 1.25 | .74  |
| 8    | 1.43 | 1.68 | 2.26 | 3.86 | 4.23 | 3.50 | 23.67 | 3.70 | 2.10 | 1.53 | 1.13 | .76  |
| 9    | 1.84 | 1.66 | 2.28 | 4.26 | 4.03 | 3.38 | 22.15 | 3.56 | 2.03 | 1.42 | 1.08 | .77  |
| 10   | 2.10 | 1.63 | 2.34 | 4.57 | 3.89 | 3.34 | 20.51 | 3.43 | 1.95 | 1.37 | 1.15 | .78  |
| 11   | 2.51 | 1.64 | 2.30 | 4.46 | 3.74 | 6.04 | 18.75 | 3.29 | 1.87 | 1.36 | 1.21 | .78  |
| 12   | 2.92 | 1.78 | 2.40 | 4.34 | 3.62 | 6.21 | 16.70 | 3.14 | 1.80 | 1.40 | 1.20 | .96  |
| 13   | 2.73 | 1.80 | 4.45 | 4.33 | 3.55 | 6.34 | 14.93 | 3.02 | 1.76 | 1.40 | 1.59 | 1.68 |
| 14   | 2.28 | 1.79 | 4.75 | 4.32 | 4.36 | 6.37 | 13.74 | 2.91 | 1.73 | 1.32 | 1.64 | 1.52 |
| 15   | 1.95 | 1.74 | 4.74 | 4.34 | 4.31 | 6.24 | 12.76 | 2.76 | 1.68 | 1.24 | 1.44 | 1.56 |
| 16   | 1.78 | 1.71 | 4.09 | 4.34 | 4.22 | 6.12 | 11.86 | 2.64 | 1.64 | 1.19 | 1.38 | 1.49 |
| 17   | 1.66 | 1.72 | 3.80 | 4.34 | 4.13 | 6.05 | 11.28 | 2.56 | 1.62 | ---  | 1.56 | 1.35 |
| 18   | 1.52 | 1.79 | 3.67 | 4.29 | 4.07 | 5.82 | 11.24 | 2.50 | 1.59 | ---  | 1.54 | 1.18 |
| 19   | 1.46 | 1.84 | 3.64 | 4.27 | 4.59 | 6.52 | 11.37 | 2.43 | 1.61 | ---  | 1.46 | 1.06 |
| 20   | 1.42 | 1.92 | 3.45 | 4.31 | 4.68 | 6.39 | 11.06 | 2.39 | 1.65 | ---  | 1.34 | 1.01 |
| 21   | 1.41 | 2.20 | 3.46 | 4.14 | 4.57 | 8.20 | 10.40 | 2.46 | 1.72 | ---  | 1.22 | .98  |
| 22   | 1.42 | 2.51 | 3.78 | 3.93 | 4.52 | 8.37 | 9.60  | 2.44 | 1.78 | ---  | 1.10 | .96  |
| 23   | 1.40 | 2.28 | 3.63 | 3.78 | 4.37 | 8.34 | 8.70  | 2.44 | 1.84 | ---  | 1.01 | .95  |
| 24   | 1.39 | 2.25 | 3.42 | 3.67 | 4.18 | 8.20 | 7.66  | 2.35 | 1.81 | ---  | .94  | .93  |
| 25   | 1.37 | 2.48 | 3.29 | 3.55 | 4.05 | 7.97 | 6.64  | 2.25 | 1.77 | ---  | .90  | .91  |
| 26   | 1.36 | 2.82 | 3.20 | 3.44 | 3.95 | 7.67 | 5.82  | 2.16 | 3.03 | .98  | .89  | .92  |
| 27   | 1.37 | 2.74 | 3.12 | 3.36 | 4.30 | 7.51 | 5.25  | 2.10 | 2.18 | .98  | .88  | .95  |
| 28   | 1.39 | 2.52 | 3.01 | 3.61 | 4.47 | 7.27 | 4.88  | 2.10 | 2.22 | .98  | .85  | .97  |
| 29   | 1.49 | 2.35 | 2.96 | 4.38 | 4.47 | 6.84 | 4.58  | 2.07 | 2.04 | .98  | .82  | .94  |
| 30   | 1.54 | 2.21 | 2.90 | 4.76 | ---  | 7.39 | 4.28  | 2.02 | 1.94 | .96  | .80  | .89  |
| 31   | 1.46 | ---  | 2.84 | 4.84 | ---  | 7.82 | ---   | 1.95 | ---  | .96  | .79  | ---  |
| MEAN | 1.74 | 1.99 | 3.06 | 3.99 | 4.35 | 6.06 | 13.39 | 2.86 | 1.92 | ---  | 1.16 | .99  |
| MAX  | 2.92 | 2.82 | 4.75 | 4.84 | 5.04 | 8.39 | 25.33 | 4.00 | 3.03 | ---  | 1.64 | 1.68 |
| MIN  | 1.36 | 1.63 | 2.02 | 2.74 | 3.55 | 3.34 | 4.28  | 1.95 | 1.59 | ---  | .79  | .73  |

## 97

LOCATION.--Lat 32°42'28", long 89°31'35", in NE1/4 NE1/4 sec.24, T.10 N., R.7 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, on left bank at downstream side of bridge on State Highway 35, 2.1 mi south of Carthage, 4.0 mi downstream from Lobutch Creek, 10.8 mi upstream from Tusculameta Creek, and at mile 366.3.

PERIOD OF RECORD.--September 1962 to current year. Daily mean gage heights published since October 1971.

GAGE.--Water-stage recorder. Datum of gage is 315.24 ft above sea level.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood in March 1902 reached a stage of about 27 ft, flood in 1900 reached a stage of 25.6 ft, flood in 1932 reached a stage of 24.3 ft, flood of Apr. 11, 1938, reached a stage of 23.3 ft, all from information by U. S. Army Corps of Engineers. Flood of Dec. 20, 1961, reached a stage of 25.4 ft, discharge, 31,900 cfs./s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 8 | 0300 | *19,900                           | *23.26              | No other peak greater than base discharge. |      |                                   |                     |

| DAY   | OCT  | NOV  | DEC  | JAN   | FEB   | MAR   | APR    | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|-------|-------|-------|--------|------|------|------|------|------|
| 1     | 157  | 67   | 115  | 172   | 499   | 402   | 1590   | 400  | 99   | 90   | 40   | 39   |
| 2     | 120  | 76   | 106  | 167   | 474   | 371   | 2020   | 361  | 96   | 87   | 114  | 39   |
| 3     | 101  | 84   | 102  | 190   | 455   | 344   | 6450   | 332  | 97   | 83   | 86   | 38   |
| 4     | 88   | 80   | 99   | 255   | 442   | 321   | 12800  | 318  | 92   | 81   | 71   | 37   |
| 5     | 78   | 75   | 103  | 459   | 421   | 301   | 15800  | 304  | 104  | 82   | 62   | 37   |
| 6     | 72   | 74   | 114  | 457   | 397   | 287   | 17000  | 299  | 112  | 79   | 58   | 37   |
| 7     | 68   | 72   | 123  | 405   | 362   | 270   | 18900  | 287  | 109  | 75   | 58   | 39   |
| 8     | 66   | 70   | 122  | 346   | 335   | 254   | 18200  | 291  | 104  | 71   | 56   | 39   |
| 9     | 81   | 69   | 119  | 352   | 309   | 240   | 14900  | 283  | 99   | 68   | 54   | 41   |
| 10    | 101  | 68   | 123  | 397   | 287   | 243   | 11600  | 261  | 95   | 65   | 57   | 42   |
| 11    | 109  | 67   | 132  | 386   | 271   | 721   | 8710   | 243  | 92   | 63   | 73   | 41   |
| 12    | 106  | 66   | 135  | 371   | 257   | 1010  | 6550   | 228  | 90   | 61   | 61   | 46   |
| 13    | 120  | 67   | 290  | 357   | 249   | 876   | 5340   | 211  | 88   | 59   | 55   | 46   |
| 14    | 118  | 68   | 507  | 346   | 320   | 776   | 4560   | 194  | 86   | 58   | 53   | 61   |
| 15    | 100  | 69   | 497  | 351   | 376   | 703   | 3800   | 180  | 85   | 56   | 54   | 52   |
| 16    | 85   | 67   | 422  | 346   | 347   | 652   | 3210   | 168  | 88   | 54   | 54   | 47   |
| 17    | 78   | 66   | 332  | 333   | 324   | 629   | 2760   | 161  | 114  | 53   | 52   | 44   |
| 18    | 72   | 65   | 286  | 325   | 311   | 606   | 2430   | 154  | 119  | 52   | 50   | 43   |
| 19    | 67   | 67   | 271  | 318   | 317   | 693   | 2270   | 146  | 109  | 52   | 51   | 41   |
| 20    | 64   | 73   | 265  | 327   | 427   | 1290  | 2170   | 142  | 100  | 51   | 52   | 40   |
| 21    | 62   | 83   | 271  | 340   | 401   | 1370  | 1990   | 145  | 100  | 49   | 50   | 38   |
| 22    | 61   | 92   | 306  | 321   | 375   | 1300  | 1770   | 146  | 94   | 48   | 47   | 38   |
| 23    | 59   | 106  | 320  | 292   | 356   | 1210  | 1530   | 139  | 91   | e48  | 46   | 37   |
| 24    | 58   | 110  | 291  | 271   | 333   | 1110  | 1260   | 135  | 90   | e45  | 45   | 37   |
| 25    | 57   | 111  | 261  | 256   | 310   | 1010  | 1000   | 133  | 91   | 43   | 44   | 37   |
| 26    | 58   | 135  | 236  | 241   | 295   | 926   | 801    | 127  | 111  | 42   | 43   | 38   |
| 27    | 58   | 166  | 220  | 231   | 321   | 889   | 661    | 119  | 115  | 42   | 43   | 37   |
| 28    | 58   | 158  | 207  | 247   | 400   | 905   | 572    | 115  | 105  | 43   | 42   | 37   |
| 29    | 58   | 140  | 195  | 342   | 416   | 856   | 502    | 111  | 98   | 43   | 41   | 36   |
| 30    | 58   | 126  | 186  | 461   | ---   | 956   | 447    | 107  | 94   | 43   | 40   | 36   |
| 31    | 59   | ---  | 181  | 507   | ---   | 1530  | ---    | 102  | ---  | 41   | 40   | ---  |
| TOTAL | 2497 | 2637 | 6937 | 10169 | 10387 | 23051 | 171593 | 6342 | 2967 | 1825 | 1692 | 1220 |
| MEAN  | 80.5 | 87.9 | 224  | 328   | 358   | 744   | 5720   | 205  | 98.9 | 58.9 | 54.6 | 40.7 |
| MAX   | 157  | 166  | 507  | 507   | 499   | 1530  | 18900  | 400  | 119  | 90   | 114  | 61   |
| MIN   | 57   | 65   | 99   | 167   | 249   | 240   | 447    | 102  | 85   | 41   | 40   | 36   |
| CFSM  | .06  | .07  | .17  | .24   | .27   | .55   | 4.25   | .15  | .07  | .04  | .04  | .03  |
| IN.   | .07  | .07  | .19  | .28   | .29   | .64   | 4.74   | .18  | .08  | .05  | .05  | .03  |

|      |      |      |       |       |       |       |       |       |      |      |      |      |
|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| MEAN | 384  | 741  | 2171  | 3667  | 3881  | 4173  | 4139  | 2121  | 714  | 538  | 408  | 306  |
| MAX  | 3511 | 3424 | 11360 | 11030 | 11060 | 12090 | 17460 | 11780 | 2919 | 2650 | 2636 | 2869 |
| (WY) | 1976 | 1978 | 1983  | 1974  | 1983  | 1980  | 1979  | 1983  | 1983 | 1989 | 1975 | 1979 |
| MIN  | 39.4 | 66.7 | 205   | 328   | 358   | 744   | 329   | 151   | 57.0 | 58.9 | 54.6 | 40.7 |
| (WY) | 1964 | 1964 | 1988  | 2000  | 2000  | 2000  | 1963  | 1963  | 1988 | 2000 | 2000 | 2000 |

|                          |        |        |        |         |        |             |
|--------------------------|--------|--------|--------|---------|--------|-------------|
| ANNUAL TOTAL             | 434936 |        | 241317 |         |        |             |
| ANNUAL MEAN              | 1192   |        | 659    |         | 1927   |             |
| HIGHEST ANNUAL MEAN      |        |        |        |         | 5247   | 1983        |
| LOWEST ANNUAL MEAN       |        |        |        |         | 422    | 1963        |
| HIGHEST DAILY MEAN       | 20700  | Feb 4  | 18900  | Apr 7   | 93800  | Apr 14 1979 |
| LOWEST DAILY MEAN        | 53     | Sep 28 | 36     | Sep 29  | 32     | Oct 24 1963 |
| ANNUAL SEVEN-DAY MINIMUM | 55     | Sep 22 | 37     | Sep 24  | 33     | Oct 24 1963 |
| INSTANTANEOUS PEAK FLOW  |        |        | 19900  | Apr 8   | 102000 | Apr 14 1979 |
| INSTANTANEOUS PEAK STAGE |        |        | 23.26  | Apr 8   | 28.74  | Apr 14 1979 |
| INSTANTANEOUS LOW FLOW   |        |        | 36     | Sep 24a | 31     | Oct 30 1963 |
| ANNUAL RUNOFF (CFPM)     | .89    |        | .49    |         | 1.43   |             |
| ANNUAL RUNOFF (INCHES)   | 12.02  |        | 6.67   |         | 19.46  |             |
| 10 PERCENT EXCEEDS       | 3470   |        | 894    |         | 5020   |             |
| 50 PERCENT EXCEEDS       | 177    |        | 116    |         | 654    |             |
| 90 PERCENT EXCEEDS       | 61     |        | 43     |         | 101    |             |

a Also occurred all or part of Sept. 25, 28-29, 30.

## PEARL RIVER BASIN

02482550 PEARL RIVER NEAR CARTHAGE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1    | 4.04 | 3.04 | 3.54 | 4.02 | 6.06 | 5.47 | 9.72  | 6.04 | 3.80 | 3.47 | 2.77 | 2.61 |
| 2    | 3.67 | 3.16 | 3.44 | 3.97 | 5.93 | 5.29 | 10.66 | 5.84 | 3.76 | 3.44 | 3.71 | 2.60 |
| 3    | 3.46 | 3.27 | 3.38 | 4.17 | 5.83 | 5.13 | 16.81 | 5.68 | 3.76 | 3.39 | 3.36 | 2.58 |
| 4    | 3.30 | 3.22 | 3.35 | 4.66 | 5.76 | 4.99 | 21.01 | 5.61 | 3.71 | 3.35 | 3.15 | 2.57 |
| 5    | 3.17 | 3.15 | 3.39 | 5.88 | 5.65 | 4.86 | 22.27 | 5.53 | 3.85 | 3.36 | 3.01 | 2.57 |
| 6    | 3.07 | 3.14 | 3.51 | 5.87 | 5.51 | 4.76 | 22.62 | 5.50 | 3.95 | 3.32 | 2.94 | 2.57 |
| 7    | 3.02 | 3.11 | 3.60 | 5.60 | 5.31 | 4.65 | 23.04 | 5.42 | 3.91 | 3.27 | 2.94 | 2.60 |
| 8    | 2.99 | 3.08 | 3.58 | 5.26 | 5.15 | 4.53 | 22.89 | 5.44 | 3.83 | 3.21 | 2.93 | 2.61 |
| 9    | 3.21 | 3.06 | 3.55 | 5.29 | 4.98 | 4.43 | 22.00 | 5.39 | 3.76 | 3.16 | 2.89 | 2.64 |
| 10   | 3.47 | 3.04 | 3.59 | 5.55 | 4.84 | 4.44 | 20.63 | 5.24 | 3.70 | 3.13 | 2.93 | 2.66 |
| 11   | 3.57 | 3.02 | 3.67 | 5.49 | 4.73 | 6.91 | 18.94 | 5.11 | 3.65 | 3.10 | 3.18 | 2.65 |
| 12   | 3.54 | 3.01 | 3.70 | 5.41 | 4.63 | 8.03 | 17.28 | 5.00 | 3.61 | 3.06 | 3.00 | 2.75 |
| 13   | 3.70 | 3.01 | 4.91 | 5.32 | 4.57 | 7.55 | 16.06 | 4.87 | 3.58 | 3.03 | 2.91 | 2.80 |
| 14   | 3.68 | 3.02 | 6.14 | 5.26 | 5.04 | 7.18 | 15.16 | 4.73 | 3.55 | 3.02 | 2.86 | 3.11 |
| 15   | 3.48 | 3.03 | 6.09 | 5.29 | 5.36 | 6.88 | 14.12 | 4.61 | 3.52 | 3.00 | 2.89 | 2.98 |
| 16   | 3.29 | 3.00 | 5.70 | 5.26 | 5.20 | 6.67 | 13.14 | 4.51 | 3.55 | 2.97 | 2.89 | 2.89 |
| 17   | 3.19 | 2.97 | 5.19 | 5.18 | 5.05 | 6.57 | 12.33 | 4.44 | 3.86 | 2.95 | 2.85 | 2.84 |
| 18   | 3.11 | 2.97 | 4.89 | 5.13 | 4.97 | 6.47 | 11.69 | 4.38 | 3.89 | 2.95 | 2.82 | 2.81 |
| 19   | 3.03 | 2.98 | 4.78 | 5.09 | 5.00 | 6.81 | 11.33 | 4.30 | 3.77 | 2.96 | 2.83 | 2.78 |
| 20   | 2.98 | 3.07 | 4.74 | 5.14 | 5.63 | 8.87 | 11.11 | 4.26 | 3.66 | 2.94 | 2.85 | 2.75 |
| 21   | 2.96 | 3.21 | 4.78 | 5.22 | 5.49 | 9.14 | 10.71 | 4.30 | 3.64 | 2.92 | 2.81 | 2.72 |
| 22   | 2.94 | 3.32 | 5.01 | 5.11 | 5.34 | 8.92 | 10.19 | 4.30 | 3.56 | 2.91 | 2.77 | 2.71 |
| 23   | 2.91 | 3.48 | 5.10 | 4.92 | 5.23 | 8.66 | 9.61  | 4.23 | 3.52 | ---  | 2.74 | 2.70 |
| 24   | 2.89 | 3.52 | 4.92 | 4.78 | 5.09 | 8.34 | 8.96  | 4.19 | 3.50 | ---  | 2.72 | 2.69 |
| 25   | 2.88 | 3.53 | 4.71 | 4.68 | 4.94 | 8.01 | 8.25  | 4.18 | 3.49 | 2.83 | 2.70 | 2.70 |
| 26   | 2.89 | 3.78 | 4.53 | 4.57 | 4.84 | 7.73 | 7.63  | 4.11 | 3.73 | 2.82 | 2.69 | 2.71 |
| 27   | 2.89 | 4.07 | 4.41 | 4.48 | 5.01 | 7.60 | 7.14  | 4.03 | 3.76 | 2.82 | 2.68 | 2.69 |
| 28   | 2.89 | 4.00 | 4.30 | 4.60 | 5.46 | 7.66 | 6.80  | 3.98 | 3.65 | 2.83 | 2.67 | 2.68 |
| 29   | 2.89 | 3.81 | 4.21 | 5.21 | 5.54 | 7.48 | 6.51  | 3.93 | 3.58 | 2.83 | 2.65 | 2.68 |
| 30   | 2.89 | 3.67 | 4.13 | 5.87 | ---  | 7.82 | 6.26  | 3.89 | 3.52 | 2.84 | 2.63 | 2.67 |
| 31   | 2.91 | ---  | 4.09 | 6.10 | ---  | 9.57 | ---   | 3.83 | ---  | 2.80 | 2.62 | ---  |
| MEAN | 3.19 | 3.26 | 4.35 | 5.11 | 5.25 | 6.82 | 13.83 | 4.74 | 3.69 | ---  | 2.88 | 2.71 |
| MAX  | 4.04 | 4.07 | 6.14 | 6.10 | 6.06 | 9.57 | 23.04 | 6.04 | 3.95 | ---  | 3.71 | 3.11 |
| MIN  | 2.88 | 2.97 | 3.35 | 3.97 | 4.57 | 4.43 | 6.26  | 3.83 | 3.49 | ---  | 2.62 | 2.57 |

## 02483000 TUSCOLAMETA CREEK AT WALNUT GROVE, MS

LOCATION.--Lat 32°35'17", long 89°27'54", in NE1/4 NW1/4 sec.34, T.9 N., R.8 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, on left bank at downstream side of bridge on State Highway 35, over north drainage canal, 1 mi south of city limits of Walnut Grove, 0.6 mi upstream from Illinois Central and Gulf Railroad bridge, 7.5 mi upstream from junction of north and south drainage canals, and 15.5 mi upstream from mouth.

DRAINAGE AREA.--411 mi<sup>2</sup> combined drainage area for all channels.

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for October to December 1938, published in WSP 1304. Daily mean gage heights published since October 1971.

REVISED RECORDS.--WSP 1002: 1943. WSP 1504: 1939-40, 1943-44(M). WDR MS-92: 1983-1984.

GAGE.--Water-stage recorder. Datum of gages is 322.70 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to June 18, 1939, nonrecording gage and June 18, 1939 to July 13, 1953, water-stage recorder and nonrecording gage, at site 0.2 mi upstream at same datum. Water-stage recorder, on south canal right bank at upstream side of bridge on State Highway 35, 1 mi south of north canal gage. Prior to Nov. 24, 1943, nonrecording gage and Nov. 24, 1943 to Oct. 21, 1959, water-stage recorder, on south canal at site 1,800 ft downstream, at same datum. Prior to Oct. 1, 1971, at datum 10.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Discharge computed by combining flow of individually rated channels. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Prior to canalization, creek reached a stage of 34.5 ft present datum, from floodmark, believed to be flood of April 1900.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 5 | 1130 | *4,350                            | *24.87              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|------|-------|------|------|-------|-------|-------|
| 1     | 45    | 12   | 34   | 31   | 105  | 94   | 173   | 18   | 16   | 22    | 11    | 3.6   |
| 2     | 24    | 26   | 34   | 34   | 83   | 78   | 480   | 16   | 14   | 22    | 13    | 3.6   |
| 3     | 18    | 20   | 36   | 47   | 68   | 59   | 3210  | 26   | 11   | 16    | 13    | 5.5   |
| 4     | 16    | 15   | 38   | 83   | 60   | 47   | 4010  | 38   | 11   | 16    | 33    | 6.6   |
| 5     | 15    | 15   | 52   | 199  | 54   | 41   | 4240  | 32   | 14   | 15    | 21    | 8.6   |
| 6     | 16    | 17   | 56   | 146  | 48   | 44   | 2830  | 33   | 18   | 14    | 18    | 6.7   |
| 7     | 14    | 16   | 61   | 93   | 55   | 35   | 687   | 47   | 20   | 13    | 15    | 6.2   |
| 8     | 12    | 16   | 46   | 70   | 49   | 39   | 280   | 39   | 18   | 14    | 19    | 3.8   |
| 9     | 23    | 16   | 38   | 64   | 45   | 44   | 205   | 28   | 16   | 12    | 16    | 2.3   |
| 10    | 122   | 18   | 31   | 128  | 44   | 53   | 148   | 22   | 15   | 11    | 15    | 5.3   |
| 11    | 177   | 23   | 37   | 186  | 41   | 294  | 111   | 18   | 12   | 9.6   | 112   | 5.5   |
| 12    | 67    | 26   | 50   | 135  | 36   | 420  | 98    | 17   | 14   | 14    | 81    | 8.3   |
| 13    | 27    | 31   | 348  | 96   | 47   | 249  | 178   | 16   | 15   | 13    | 36    | 26    |
| 14    | 18    | 40   | 510  | 77   | 54   | 161  | 224   | 16   | 14   | 11    | 29    | 59    |
| 15    | 12    | 24   | 234  | 65   | 70   | 111  | 213   | 16   | 14   | 8.8   | 20    | 35    |
| 16    | 9.1   | 28   | 127  | 55   | 62   | 106  | 162   | 16   | 13   | 7.5   | 14    | 21    |
| 17    | 9.1   | 29   | 77   | 52   | 45   | 118  | 118   | 15   | 26   | 7.5   | 12    | 17    |
| 18    | 9.3   | 38   | 56   | 50   | 40   | 152  | 89    | 16   | 31   | 8.3   | 10    | 14    |
| 19    | 12    | 31   | 50   | 47   | 41   | 295  | 65    | 19   | 28   | 11    | 8.2   | 11    |
| 20    | 8.1   | 32   | 55   | 46   | 62   | 863  | 47    | 20   | 62   | 14    | 6.1   | 8.1   |
| 21    | 5.9   | 36   | 61   | 46   | 69   | 723  | 37    | 25   | 49   | 13    | 6.5   | 5.1   |
| 22    | 6.2   | 44   | 87   | 42   | 60   | 379  | 38    | 55   | 26   | 14    | 5.0   | 3.7   |
| 23    | 8.8   | 41   | 88   | 41   | 52   | 204  | 39    | 40   | 18   | 15    | 3.8   | 12    |
| 24    | 7.5   | 47   | 69   | 50   | 43   | 142  | 32    | 28   | 15   | 15    | 3.6   | 11    |
| 25    | 9.0   | 50   | 57   | 46   | 41   | 109  | 33    | 24   | 12   | 15    | 3.9   | 12    |
| 26    | 12    | 53   | 47   | 43   | 47   | 109  | 60    | 21   | 34   | 15    | 3.9   | 11    |
| 27    | 12    | 52   | 43   | 41   | 64   | 226  | 43    | 16   | 53   | 11    | 4.7   | 10    |
| 28    | 14    | 47   | 39   | 51   | 161  | 362  | 30    | 14   | 33   | 8.5   | 3.8   | 12    |
| 29    | 10    | 41   | 36   | 157  | 126  | 271  | 25    | 14   | 29   | 7.1   | 4.1   | 11    |
| 30    | 9.5   | 36   | 33   | 193  | ---  | 225  | 21    | 19   | 22   | 6.0   | 4.9   | 9.8   |
| 31    | 8.5   | ---  | 32   | 146  | ---  | 200  | ---   | 18   | ---  | 6.2   | 3.9   | ---   |
| TOTAL | 757.0 | 920  | 2562 | 2560 | 1772 | 6253 | 17926 | 742  | 673  | 385.5 | 550.4 | 354.7 |
| MEAN  | 24.4  | 30.7 | 82.6 | 82.6 | 61.1 | 202  | 598   | 23.9 | 22.4 | 12.4  | 17.8  | 11.8  |
| MAX   | 177   | 53   | 510  | 199  | 161  | 863  | 4240  | 55   | 62   | 22    | 112   | 59    |
| MIN   | 5.9   | 12   | 31   | 31   | 36   | 35   | 21    | 14   | 11   | 6.0   | 3.6   | 2.3   |
| CFSM  | .06   | .07  | .20  | .20  | .15  | .49  | 1.45  | .06  | .05  | .03   | .04   | .03   |
| IN.   | .07   | .08  | .23  | .23  | .16  | .57  | 1.62  | .07  | .06  | .03   | .05   | .03   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

|      | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 108  | 306  | 596  | 1051 | 1255 | 1210 | 1034 | 502  | 172  | 184  | 106  | 78.9 |
| MAX  | 1433 | 1657 | 3025 | 4061 | 4111 | 4089 | 3233 | 2482 | 780  | 2001 | 752  | 1244 |
| (WY) | 1976 | 1958 | 1962 | 1990 | 1990 | 1980 | 1973 | 1983 | 1989 | 1940 | 1982 | 1979 |
| MIN  | 4.53 | 9.20 | 50.0 | 82.6 | 61.1 | 189  | 47.4 | 23.9 | 11.8 | 12.4 | 9.00 | 4.13 |
| (WY) | 1955 | 1954 | 1939 | 2000 | 2000 | 1967 | 1967 | 2000 | 1972 | 2000 | 1956 | 1954 |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1939 - 2000

|                          | 1999     | 2000    | 1939-2000 |
|--------------------------|----------|---------|-----------|
| ANNUAL TOTAL             | 105374.0 | 35455.6 | 547       |
| ANNUAL MEAN              | 289      | 96.9    | 1303      |
| HIGHEST ANNUAL MEAN      |          |         | 96.9      |
| LOWEST ANNUAL MEAN       |          |         | 2000      |
| HIGHEST DAILY MEAN       | 8940     | 4240    | 32500     |
| LOWEST DAILY MEAN        | 5.1      | 2.3     | 2.3       |
| ANNUAL SEVEN-DAY MINIMUM | 6.8      | 4.0     | 3.3       |
| INSTANTANEOUS PEAK FLOW  |          | 4350    | 34600     |
| INSTANTANEOUS PEAK STAGE |          | 24.87   | 33.00     |
| ANNUAL RUNOFF (CFSM)     | .70      | .24     | 1.33      |
| ANNUAL RUNOFF (INCHES)   | 9.54     | 3.21    | 18.07     |
| 10 PERCENT EXCEEDS       | 560      | 154     | 1430      |
| 50 PERCENT EXCEEDS       | 38       | 31      | 106       |
| 90 PERCENT EXCEEDS       | 12       | 8.3     | 16        |



## PEARL RIVER BASIN

02483000 TUSCOLAMETA CREEK AT WALNUT GROVE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 11.40 | 11.42 | 11.86 | 11.50 | 11.84 | 11.72 | 12.11 | 11.25 | 11.47 | 11.25 | 10.90 | 10.39 |
| 2    | 11.28 | 11.61 | 11.87 | 11.50 | 11.72 | 11.62 | 14.20 | 11.20 | 11.43 | 11.23 | 10.90 | 10.39 |
| 3    | 11.22 | 11.52 | 11.92 | 11.56 | 11.64 | 11.48 | 22.74 | 11.29 | 11.36 | 11.15 | 10.96 | 10.39 |
| 4    | 11.24 | 11.36 | 11.92 | 11.69 | 11.59 | 11.38 | 24.27 | 11.34 | 11.35 | 11.21 | 11.11 | 10.38 |
| 5    | 11.24 | 11.36 | 12.05 | 12.51 | 11.54 | 11.31 | 24.68 | 11.40 | 11.42 | 11.24 | 11.03 | 10.36 |
| 6    | 11.27 | 11.36 | 12.03 | 12.26 | 11.50 | 11.35 | 21.71 | 11.50 | 11.47 | 11.22 | 10.98 | 10.34 |
| 7    | 11.29 | 11.44 | 12.06 | 11.93 | 11.56 | 11.27 | 14.90 | 11.62 | 11.52 | 11.22 | 10.91 | 10.35 |
| 8    | 11.29 | 11.52 | 11.92 | 11.78 | 11.50 | 11.28 | 12.97 | 11.54 | 11.45 | 11.22 | 10.87 | 10.36 |
| 9    | 11.44 | 11.56 | 11.84 | 11.72 | 11.45 | 11.28 | 12.60 | 11.41 | 11.41 | 11.19 | 10.84 | 10.37 |
| 10   | 11.74 | 11.66 | 11.75 | 11.89 | 11.44 | 11.41 | 12.26 | 11.35 | 11.39 | 11.19 | 10.87 | 10.37 |
| 11   | 12.20 | 11.75 | 11.84 | 12.06 | 11.40 | 12.70 | 12.02 | 11.31 | 11.37 | 11.10 | 11.05 | 10.42 |
| 12   | 11.72 | 11.81 | 11.92 | 11.92 | 11.33 | 13.42 | 11.90 | 11.29 | 11.39 | 11.14 | 10.92 | 10.49 |
| 13   | 11.40 | 11.87 | 12.85 | 11.79 | 11.45 | 12.51 | 12.31 | 11.26 | 11.40 | 11.16 | 10.96 | 10.91 |
| 14   | 11.27 | 11.97 | 13.72 | 11.73 | 11.50 | 12.12 | 12.55 | 11.25 | 11.39 | 11.16 | 10.95 | 11.48 |
| 15   | 11.21 | 11.76 | 12.67 | 11.68 | 11.53 | 11.83 | 12.41 | 11.27 | 11.34 | 11.12 | 10.89 | 11.24 |
| 16   | 11.17 | 11.74 | 12.25 | 11.60 | 11.53 | 11.70 | 12.21 | 11.29 | 11.29 | 11.09 | 10.87 | 10.93 |
| 17   | 11.14 | 11.78 | 11.93 | 11.57 | 11.39 | 11.77 | 12.00 | 11.29 | 11.40 | 11.06 | 10.86 | 10.85 |
| 18   | 11.10 | 11.84 | 11.73 | 11.55 | 11.35 | 11.86 | 11.86 | 11.33 | 11.43 | 11.04 | 10.83 | 10.81 |
| 19   | 11.01 | 11.82 | 11.68 | 11.54 | 11.36 | 12.66 | 11.71 | 11.39 | 11.43 | 11.14 | 10.79 | 10.75 |
| 20   | 10.99 | 11.84 | 11.71 | 11.54 | 11.51 | 15.04 | 11.57 | 11.43 | 11.37 | 11.20 | 10.70 | 10.71 |
| 21   | 11.04 | 11.89 | 11.74 | 11.55 | 11.58 | 14.18 | 11.47 | 11.49 | 11.58 | 11.15 | 10.63 | 10.66 |
| 22   | 11.08 | 11.92 | 11.89 | 11.50 | 11.47 | 12.92 | 11.39 | 11.54 | 11.41 | 11.13 | 10.57 | 10.64 |
| 23   | 11.25 | 11.88 | 11.91 | 11.47 | 11.43 | 12.29 | 11.36 | 11.53 | 11.15 | 11.06 | 10.53 | 10.63 |
| 24   | 11.17 | 11.95 | 11.77 | 11.55 | 11.36 | 11.94 | 11.37 | 11.52 | 10.91 | 11.09 | 10.50 | 10.64 |
| 25   | 11.16 | 11.97 | 11.70 | 11.52 | 11.33 | 11.74 | 11.43 | 11.46 | 10.92 | 11.06 | 10.48 | 10.66 |
| 26   | 11.18 | 12.00 | 11.64 | 11.49 | 11.41 | 11.83 | 11.45 | 11.42 | 11.43 | 11.03 | 10.45 | 10.65 |
| 27   | 11.22 | 12.00 | 11.59 | 11.45 | 11.50 | 12.06 | 11.40 | 11.40 | 11.73 | 10.99 | 10.44 | 10.66 |
| 28   | 11.24 | 11.94 | 11.55 | 11.48 | 12.09 | 12.44 | 11.33 | 11.37 | 11.40 | 10.98 | 10.44 | 10.88 |
| 29   | 11.26 | 11.87 | 11.54 | 11.89 | 11.90 | 12.36 | 11.30 | 11.33 | 11.30 | 10.96 | 10.43 | 10.96 |
| 30   | 11.28 | 11.85 | 11.54 | 12.22 | ---   | 12.32 | 11.32 | 11.37 | 11.27 | 10.93 | 10.41 | 10.94 |
| 31   | 11.31 | ---   | 11.51 | 12.05 | ---   | 12.25 | ---   | 11.43 | ---   | 10.95 | 10.40 | ---   |
| MEAN | 11.28 | 11.74 | 11.93 | 11.73 | 11.52 | 12.13 | 13.56 | 11.38 | 11.37 | 11.12 | 10.76 | 10.65 |
| MAX  | 12.20 | 12.00 | 13.72 | 12.51 | 12.09 | 15.04 | 24.68 | 11.62 | 11.73 | 11.25 | 11.11 | 11.48 |
| MIN  | 10.99 | 11.36 | 11.51 | 11.45 | 11.33 | 11.27 | 11.30 | 11.20 | 10.91 | 10.93 | 10.40 | 10.34 |

## 101

LOCATION.--Lat 32°40'02", long 89°38'45", in SE1/4 SE1/4 sec.35, T.10 N., R.6 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, County code 079, at State Highway 25, 2.7 mi south of Highway 16 intersection, 6.1 mi northwest of Lena, about 353.8 mi upstream from the mouth, and 2.8 mi upstream of the confluence with the Yockanookany River. The gage is located approximately 52.0 mi upstream of the Ross Barnett Reservoir Dam.

PERIOD OF RECORD.--Oct. 1936 to Sept. 1953, Oct. 1994 to current year. Additional gage-height and discharge records are available from the National Weather Service and the U.S. Army Corps of Engineers.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1979, reached a stage of 32.20 ft at datum 0.5 ft lower, and a discharge of 122,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 7 | 0700 | *22.800                           | *24.23              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR    | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|--------|------|------|------|------|------|
| 1     | 245  | 105  | 202   | 283   | 731   | 649   | 2340   | 472  | 158  | 138  | 62   | 44   |
| 2     | 269  | 102  | 193   | 276   | 701   | 612   | 2810   | 433  | 154  | 131  | 75   | 43   |
| 3     | 214  | 105  | 183   | 288   | 654   | 564   | 7990   | 397  | 151  | 136  | 136  | 42   |
| 4     | 171  | 120  | 178   | 390   | 615   | 515   | 14800  | 383  | 161  | 138  | 151  | 41   |
| 5     | 139  | 113  | 189   | 540   | 574   | 482   | 19600  | 378  | 183  | 127  | 134  | 38   |
| 6     | 117  | 111  | 192   | 715   | 540   | 455   | 21700  | 371  | 181  | 123  | 115  | 35   |
| 7     | 103  | 115  | 203   | 657   | 504   | 438   | 22600  | 359  | 171  | 117  | 96   | 39   |
| 8     | 102  | 108  | 215   | 561   | 477   | 426   | 21200  | 368  | 168  | 108  | 90   | 46   |
| 9     | 131  | 103  | 221   | 517   | 449   | 414   | 18600  | 365  | 165  | 101  | 91   | 47   |
| 10    | 139  | 100  | 227   | 541   | 429   | 433   | 15200  | 342  | 159  | 96   | 97   | 47   |
| 11    | 233  | 95   | 224   | 574   | 413   | 1030  | 11600  | 315  | 151  | 95   | 148  | 48   |
| 12    | 290  | 92   | 245   | 606   | 399   | 1540  | 8730   | 293  | 144  | 89   | 162  | 58   |
| 13    | 237  | 92   | 394   | 572   | 390   | 1480  | 7330   | 269  | 138  | 80   | 151  | 106  |
| 14    | 207  | 95   | 836   | 521   | 454   | 1270  | 6350   | 247  | 134  | 78   | 110  | 94   |
| 15    | 180  | 95   | 950   | 492   | 511   | 1180  | 5130   | 227  | 129  | 78   | 91   | 104  |
| 16    | 151  | 105  | 767   | 486   | 520   | 1090  | 4180   | 215  | 142  | 73   | 88   | 92   |
| 17    | 131  | 100  | 607   | 467   | 495   | 961   | 3590   | 209  | 164  | 66   | 81   | 75   |
| 18    | 115  | 101  | 485   | 451   | 477   | 902   | 3150   | 201  | 194  | 62   | 75   | 67   |
| 19    | 107  | 106  | 430   | 437   | 461   | 924   | 2710   | 195  | 239  | 66   | 71   | 65   |
| 20    | 98   | 122  | 409   | 433   | 507   | 1850  | 2340   | 190  | 209  | 67   | 67   | 64   |
| 21    | 91   | 125  | 419   | 439   | 572   | 2360  | 2060   | 192  | 206  | 63   | 64   | 60   |
| 22    | 91   | 132  | 443   | 442   | 555   | 2190  | 1780   | 199  | 192  | 60   | 60   | 57   |
| 23    | 85   | 156  | 476   | 419   | 528   | 1940  | 1540   | 220  | 165  | 61   | 59   | 58   |
| 24    | 81   | 179  | 482   | 395   | 502   | 1820  | 1310   | 216  | 150  | 57   | 58   | 56   |
| 25    | 80   | 209  | 447   | 381   | 472   | 1650  | 1080   | 202  | 141  | 56   | 57   | 60   |
| 26    | 82   | 216  | 409   | 360   | 454   | 1420  | 901    | 195  | 143  | 53   | 56   | 57   |
| 27    | 83   | 231  | 372   | 345   | 471   | 1290  | 781    | 183  | 158  | 58   | 56   | 55   |
| 28    | 84   | 248  | 343   | 360   | 529   | 1400  | 670    | 180  | 185  | 63   | 53   | 52   |
| 29    | 87   | 232  | 321   | 422   | 632   | 1480  | 586    | 171  | 160  | 60   | 52   | 51   |
| 30    | 84   | 215  | 305   | 600   | ---   | 1540  | 519    | 163  | 147  | 58   | 47   | 50   |
| 31    | 86   | ---  | 291   | 712   | ---   | 2110  | ---    | 163  | ---  | 60   | 46   | ---  |
| TOTAL | 4313 | 4028 | 11658 | 14682 | 15016 | 36415 | 213177 | 8313 | 4942 | 2618 | 2699 | 1751 |
| MEAN  | 139  | 134  | 376   | 474   | 518   | 1175  | 7106   | 268  | 165  | 84.5 | 87.1 | 58.4 |
| MAX   | 290  | 248  | 950   | 715   | 731   | 2360  | 22600  | 472  | 239  | 138  | 162  | 106  |
| MIN   | 80   | 92   | 178   | 276   | 390   | 414   | 519    | 163  | 129  | 53   | 46   | 35   |
| MED   | 115  | 110  | 343   | 451   | 504   | 1180  | 3370   | 220  | 160  | 73   | 75   | 56   |
| CFSM  | .07  | .07  | .19   | .24   | .26   | .59   | 3.59   | .14  | .08  | .04  | .04  | .03  |
| IN.   | .08  | .08  | .22   | .28   | .28   | .68   | 4.00   | .16  | .09  | .05  | .05  | .03  |

|      |      |      |      |       |       |       |       |      |      |      |      |      |
|------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|
| MEAN | 239  | 689  | 1948 | 4755  | 5964  | 5422  | 4366  | 2150 | 1016 | 1076 | 571  | 296  |
| MAX  | 940  | 4421 | 8928 | 14570 | 12920 | 10310 | 11520 | 9072 | 4860 | 9383 | 2233 | 1395 |
| (WY) | 1995 | 1949 | 1949 | 1949  | 1946  | 1944  | 1938  | 1953 | 1997 | 1940 | 1946 | 1950 |
| MIN  | 50.0 | 70.0 | 250  | 474   | 518   | 1175  | 1460  | 268  | 165  | 84.5 | 87.1 | 58.4 |
| (WY) | 1944 | 1937 | 1939 | 2000  | 2000  | 2000  | 1942  | 2000 | 2000 | 2000 | 2000 | 2000 |

|                          |        |        |        |       |       |      |       |      |  |
|--------------------------|--------|--------|--------|-------|-------|------|-------|------|--|
| ANNUAL TOTAL             | 637366 |        | 319612 |       |       |      |       |      |  |
| ANNUAL MEAN              | 1746   |        | 873    |       |       | 2356 |       |      |  |
| HIGHEST ANNUAL MEAN      |        |        |        |       |       | 4843 |       | 1949 |  |
| LOWEST ANNUAL MEAN       |        |        |        |       |       | 873  |       | 2000 |  |
| HIGHEST DAILY MEAN       | 26800  | Feb 3  | 22600  | Apr 7 | 45500 |      | Jan 8 | 1950 |  |
| LOWEST DAILY MEAN        | 74     | Aug 23 | 35     | Sep 6 | 35    |      | Sep 6 | 2000 |  |
| ANNUAL SEVEN-DAY MINIMUM | 76     | Sep 22 | 40     | Sep 1 | 40    |      | Sep 1 | 2000 |  |
| INSTANTANEOUS PEAK FLOW  |        |        | 22800  | Apr 7 | 46500 |      | Jan 8 | 1950 |  |
| INSTANTANEOUS PEAK STAGE |        |        | 24.23  | Apr 7 | 28.56 |      | Jan 8 | 1950 |  |
| INSTANTANEOUS LOW FLOW   |        |        | 30     | Sep 6 | 30    |      | Sep 6 | 2000 |  |
| ANNUAL RUNOFF (CFSM)     | .88    |        | .44    |       | 1.19  |      |       |      |  |
| ANNUAL RUNOFF (INCHES)   | 11.97  |        | 6.00   |       | 16.16 |      |       |      |  |
| 10 PERCENT EXCEEDS       | 5550   |        | 1340   |       | 6500  |      |       |      |  |
| 50 PERCENT EXCEEDS       | 273    |        | 202    |       | 754   |      |       |      |  |
| 90 PERCENT EXCEEDS       | 92     |        | 60     |       | 118   |      |       |      |  |

## PEARL RIVER BASIN

02483500 PEARL RIVER NEAR LENA, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1    | 4.62 | 4.30 | 4.46 | 4.57 | 5.69 | 5.39 | 8.92  | 5.19 | 4.39 | 4.37 | 4.12 | 4.05 |
| 2    | 4.68 | 4.29 | 4.42 | 4.55 | 5.61 | 5.28 | 9.64  | 5.09 | 4.39 | 4.35 | 4.16 | 4.04 |
| 3    | 4.55 | 4.30 | 4.40 | 4.58 | 5.49 | 5.17 | 15.56 | 4.99 | 4.38 | 4.36 | 4.32 | 4.04 |
| 4    | 4.44 | 4.34 | 4.38 | 4.84 | 5.39 | 5.05 | 20.63 | 4.96 | 4.40 | 4.37 | 4.35 | 4.03 |
| 5    | 4.36 | 4.32 | 4.40 | 5.22 | 5.28 | 4.96 | 23.12 | 4.94 | 4.46 | 4.35 | 4.31 | 4.01 |
| 6    | 4.30 | 4.32 | 4.41 | 5.65 | 5.20 | 4.89 | 23.93 | 4.93 | 4.46 | 4.34 | 4.26 | 4.00 |
| 7    | 4.27 | 4.33 | 4.43 | 5.51 | 5.11 | 4.84 | 24.17 | 4.90 | 4.44 | 4.32 | 4.21 | 4.02 |
| 8    | 4.28 | 4.31 | 4.46 | 5.27 | 5.03 | 4.81 | 23.73 | 4.92 | 4.43 | 4.30 | 4.19 | 4.06 |
| 9    | 4.35 | 4.30 | 4.46 | 5.16 | 4.96 | 4.78 | 22.71 | 4.91 | 4.42 | 4.29 | 4.19 | 4.06 |
| 10   | 4.37 | 4.29 | 4.48 | 5.22 | 4.90 | 4.83 | 20.91 | 4.85 | 4.41 | 4.27 | 4.21 | 4.06 |
| 11   | 4.60 | 4.27 | 4.46 | 5.30 | 4.86 | 6.26 | 18.60 | 4.79 | 4.39 | 4.27 | 4.33 | 4.07 |
| 12   | 4.75 | 4.26 | 4.51 | 5.38 | 4.82 | 7.34 | 16.38 | 4.73 | 4.37 | 4.26 | 4.37 | 4.11 |
| 13   | 4.61 | 4.26 | 4.89 | 5.30 | 4.79 | 7.23 | 15.06 | 4.67 | 4.36 | 4.23 | 4.34 | 4.26 |
| 14   | 4.54 | 4.26 | 5.97 | 5.17 | 4.95 | 6.80 | 14.06 | 4.62 | 4.35 | 4.22 | 4.24 | 4.23 |
| 15   | 4.47 | 4.26 | 6.24 | 5.10 | 5.10 | 6.61 | 12.73 | 4.57 | 4.33 | 4.21 | 4.19 | 4.25 |
| 16   | 4.40 | 4.28 | 5.80 | 5.09 | 5.12 | 6.41 | 11.60 | 4.54 | 4.37 | 4.20 | 4.18 | 4.22 |
| 17   | 4.35 | 4.26 | 5.40 | 5.04 | 5.05 | 6.12 | 10.84 | 4.52 | 4.42 | 4.18 | 4.17 | 4.18 |
| 18   | 4.31 | 4.26 | 5.09 | 5.00 | 5.00 | 5.98 | 10.25 | 4.50 | 4.50 | 4.16 | 4.15 | 4.15 |
| 19   | 4.29 | 4.27 | 4.95 | 4.96 | 4.96 | 6.03 | 9.62  | 4.49 | 4.61 | 4.16 | 4.14 | 4.14 |
| 20   | 4.27 | 4.30 | 4.89 | 4.95 | 5.07 | 7.95 | 9.06  | 4.48 | 4.53 | 4.17 | 4.13 | 4.14 |
| 21   | 4.26 | 4.30 | 4.91 | 4.96 | 5.23 | 8.96 | 8.58  | 4.48 | 4.54 | 4.15 | 4.12 | 4.12 |
| 22   | 4.26 | 4.32 | 4.98 | 4.97 | 5.18 | 8.63 | 8.08  | 4.50 | 4.50 | 4.14 | 4.10 | 4.11 |
| 23   | 4.24 | 4.37 | 5.06 | 4.91 | 5.11 | 8.12 | 7.60  | 4.55 | 4.43 | 4.14 | 4.10 | 4.11 |
| 24   | 4.23 | 4.43 | 5.08 | 4.85 | 5.05 | 7.88 | 7.15  | 4.54 | 4.40 | 4.12 | 4.10 | 4.11 |
| 25   | 4.23 | 4.50 | 4.99 | 4.81 | 4.96 | 7.57 | 6.65  | 4.51 | 4.37 | 4.12 | 4.09 | 4.13 |
| 26   | 4.24 | 4.51 | 4.88 | 4.76 | 4.91 | 7.10 | 6.24  | 4.49 | 4.38 | 4.11 | 4.09 | 4.12 |
| 27   | 4.24 | 4.54 | 4.79 | 4.72 | 4.96 | 6.85 | 5.95  | 4.46 | 4.42 | 4.12 | 4.09 | 4.11 |
| 28   | 4.24 | 4.58 | 4.72 | 4.76 | 5.09 | 7.07 | 5.68  | 4.45 | 4.48 | 4.14 | 4.08 | 4.10 |
| 29   | 4.25 | 4.54 | 4.66 | 4.92 | 5.34 | 7.23 | 5.47  | 4.43 | 4.42 | 4.12 | 4.07 | 4.09 |
| 30   | 4.24 | 4.49 | 4.62 | 5.36 | ---  | 7.35 | 5.31  | 4.41 | 4.39 | 4.11 | 4.06 | 4.09 |
| 31   | 4.25 | ---  | 4.59 | 5.64 | ---  | 8.47 | ---   | 4.41 | ---  | 4.11 | 4.06 | ---  |
| MEAN | 4.37 | 4.35 | 4.83 | 5.05 | 5.11 | 6.51 | 12.94 | 4.67 | 4.42 | 4.22 | 4.18 | 4.11 |
| MAX  | 4.75 | 4.58 | 6.24 | 5.65 | 5.69 | 8.96 | 24.17 | 5.19 | 4.61 | 4.37 | 4.37 | 4.26 |
| MIN  | 4.23 | 4.26 | 4.38 | 4.55 | 4.79 | 4.78 | 5.31  | 4.41 | 4.33 | 4.11 | 4.06 | 4.00 |
| MED  | 4.30 | 4.30 | 4.72 | 5.00 | 5.07 | 6.61 | 10.55 | 4.55 | 4.41 | 4.20 | 4.16 | 4.11 |

## 02484000 YOCKANOOKANY RIVER NEAR KOSCIUSKO, MS

LOCATION.--Lat 33°01'55", long 89°34'40", in NE1/4 NE1/4 sec.33, T.14 N., R.7 E., Choctaw Meridian, Attala County, Hydrologic Unit 03180001, on left bank at downstream side of bridge on State Highway 35, 2.0 mi south of Kosciusko.

DRAINAGE AREA.--303 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1938 to current year. Prior to October 1947, published as Yokahockany River near Kosciusko.

REVISED RECORDS.--WSP 1504: 1946. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is above 374.34 ft above sea level, (levels by U. S. Army Corps of Engineers). Prior to Mar. 28, 1939, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1932 reached a stage of about 17 ft, from information by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 4 | 1900 | *11,100                           | *16.92              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|------|-------|------|-------|-------|-------|-------|
| 1     | 34    | 13   | 22   | 34   | 135  | 68   | 317   | 49   | 14    | 27    | 126   | 3.5   |
| 2     | 19    | 21   | 21   | 34   | 100  | 56   | 2700  | 43   | 12    | 17    | 55    | 3.4   |
| 3     | 14    | 21   | 20   | 49   | 79   | 49   | 7300  | 39   | 12    | 12    | 23    | 3.3   |
| 4     | 12    | 18   | 22   | 111  | 66   | 45   | 10200 | 36   | 12    | 10    | 15    | 3.0   |
| 5     | 10    | 15   | 24   | 110  | 58   | 43   | 9380  | 36   | 16    | 8.8   | 10    | 2.9   |
| 6     | 9.5   | 13   | 32   | 75   | 52   | 41   | 5600  | 39   | 20    | 8.1   | 9.5   | 3.0   |
| 7     | 9.4   | 12   | 32   | 53   | 49   | 38   | 2890  | 44   | 19    | 8.1   | 7.9   | 3.1   |
| 8     | 9.8   | 12   | 32   | 47   | 47   | 37   | 1320  | 36   | 17    | 8.4   | 7.1   | 3.3   |
| 9     | 22    | 11   | 31   | 68   | 48   | 36   | 814   | 33   | 14    | 8.2   | 11    | 3.7   |
| 10    | 23    | 11   | 36   | 140  | 44   | 74   | 404   | 28   | 12    | 7.3   | 12    | 5.1   |
| 11    | 24    | 12   | 41   | 95   | 44   | 710  | 250   | 26   | 11    | 7.1   | 6.2   | 6.6   |
| 12    | 19    | 12   | 57   | 67   | 43   | 590  | 199   | 25   | 11    | 7.0   | 12    | 7.9   |
| 13    | 15    | 12   | 210  | 61   | 42   | 245  | 777   | 23   | 9.9   | 6.7   | 15    | 7.3   |
| 14    | 13    | 12   | 205  | 58   | 48   | 138  | 1340  | 21   | 9.4   | 6.3   | 9.6   | 6.1   |
| 15    | 13    | 12   | 97   | 53   | 59   | 98   | 1230  | 19   | 9.9   | 14    | 7.6   | 5.7   |
| 16    | 12    | 12   | 64   | 47   | 54   | 80   | 507   | 18   | 13    | 10    | 6.3   | 5.3   |
| 17    | 11    | 13   | 53   | 44   | 48   | 75   | 286   | 18   | 18    | 7.2   | 6.0   | 4.6   |
| 18    | 10    | 13   | 45   | 43   | 46   | 67   | 212   | 17   | 23    | 6.4   | 5.6   | 4.1   |
| 19    | 10    | 14   | 44   | 44   | 77   | 279  | 148   | 16   | 23    | 6.0   | 5.6   | 3.7   |
| 20    | 10    | 17   | 42   | 48   | 65   | 1080 | 115   | 24   | 25    | 5.8   | 5.6   | 3.5   |
| 21    | 10    | 29   | 63   | 50   | 54   | 889  | 95    | 26   | 20    | 5.4   | 5.2   | 9.3   |
| 22    | 10    | 37   | 96   | 45   | 47   | 339  | 80    | 27   | 15    | 5.6   | 4.9   | 6.7   |
| 23    | 10    | 28   | 80   | 43   | 43   | 183  | 72    | 25   | 14    | 5.8   | 4.6   | 5.6   |
| 24    | 9.9   | 23   | 57   | 44   | 41   | 129  | 70    | 20   | 12    | 5.2   | 4.4   | 5.5   |
| 25    | 9.6   | 24   | 46   | 44   | 39   | 96   | 71    | 17   | 10    | 5.4   | 4.0   | 5.4   |
| 26    | 9.8   | 27   | 41   | 41   | 39   | 83   | 64    | 15   | 9.9   | 5.4   | 3.7   | 4.9   |
| 27    | 9.8   | 29   | 38   | 39   | 82   | 207  | 58    | 15   | 11    | 5.4   | 4.1   | 4.3   |
| 28    | 10    | 29   | 36   | 59   | 147  | 293  | 52    | 22   | 10    | 5.2   | 4.5   | 4.1   |
| 29    | 10    | 25   | 35   | 135  | 96   | 250  | 69    | 18   | 9.8   | 5.6   | 4.4   | 3.9   |
| 30    | 10    | 23   | 34   | 218  | ---  | 468  | 59    | 18   | 28    | 5.4   | 4.2   | 3.7   |
| 31    | 9.8   | ---  | 34   | 181  | ---  | 311  | ---   | 17   | ---   | 86    | 3.7   | ---   |
| TOTAL | 408.6 | 550  | 1690 | 2180 | 1792 | 7097 | 46679 | 810  | 440.9 | 331.8 | 403.7 | 142.5 |
| MEAN  | 13.2  | 18.3 | 54.5 | 70.3 | 61.8 | 229  | 1556  | 26.1 | 14.7  | 10.7  | 13.0  | 4.75  |
| MAX   | 34    | 37   | 210  | 218  | 147  | 1080 | 10200 | 49   | 28    | 86    | 126   | 9.3   |
| MIN   | 9.4   | 11   | 20   | 34   | 39   | 36   | 52    | 15   | 9.4   | 5.2   | 3.7   | 2.9   |
| CFSM  | .04   | .06  | .18  | .23  | .20  | .76  | 5.14  | .09  | .05   | .04   | .04   | .02   |
| IN.   | .05   | .07  | .21  | .27  | .22  | .87  | 5.73  | .10  | .05   | .04   | .05   | .02   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

|      | MEAN | 82.9 | 251  | 564  | 842  | 968  | 943  | 795  | 424  | 166  | 168  | 71.6 | 65.6 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 748  | 1694 | 3640 | 3010 | 2318 | 3132 | 3818 | 2756 | 1322 | 1241 | 492  | 687  |      |
| (WY) | 1976 | 1980 | 1983 | 1974 | 1951 | 1980 | 1979 | 1991 | 1997 | 1989 | 1975 | 1979 |      |
| MIN  | 5.28 | 15.3 | 43.5 | 49.4 | 61.8 | 177  | 50.4 | 20.6 | 11.5 | 10.7 | 3.95 | 4.56 |      |
| (WY) | 1944 | 1954 | 1944 | 1956 | 2000 | 1966 | 1967 | 1963 | 1988 | 2000 | 1943 | 1954 |      |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1938 - 2000

|                          |          |         |       |
|--------------------------|----------|---------|-------|
| ANNUAL TOTAL             | 111898.5 | 62525.5 |       |
| ANNUAL MEAN              | 307      | 171     |       |
| HIGHEST ANNUAL MEAN      |          |         | 443   |
| LOWEST ANNUAL MEAN       |          |         | 1217  |
| HIGHEST DAILY MEAN       | 7530     | Feb 1   | 10200 |
| LOWEST DAILY MEAN        | 7.5      | Sep 20  | 2.9   |
| ANNUAL SEVEN-DAY MINIMUM | 7.5      | Sep 20  | 3.1   |
| INSTANTANEOUS PEAK FLOW  |          |         | 11100 |
| INSTANTANEOUS PEAK STAGE |          |         | 16.92 |
| INSTANTANEOUS LOW FLOW   |          |         | 2.7   |
| ANNUAL RUNOFF (CFSM)     | 1.01     |         | .56   |
| ANNUAL RUNOFF (INCHES)   | 13.74    |         | 7.68  |
| 10 PERCENT EXCEEDS       | 813      |         | 147   |
| 50 PERCENT EXCEEDS       | 36       |         | 23    |
| 90 PERCENT EXCEEDS       | 10       |         | 5.4   |





## PEARL RIVER BASIN

105

02484500 YOCKANOOKANY RIVER NEAR OFAHOME, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1    | 6.74 | 5.05 | 5.46 | 5.57 | 7.73 | 7.02  | 11.45 | 6.57 | 5.44 | 5.11 | 4.78 | 4.70 |
| 2    | 6.36 | 5.06 | 5.41 | 5.54 | 7.65 | 6.77  | 12.55 | 6.51 | 5.41 | 5.09 | 4.80 | 4.70 |
| 3    | 5.99 | 4.98 | 5.38 | 5.59 | 7.29 | 6.43  | 18.89 | 6.42 | 5.38 | 5.38 | 6.08 | 4.69 |
| 4    | 5.62 | 4.99 | 5.36 | 6.81 | 6.91 | 6.20  | 22.02 | ---  | 5.35 | 5.35 | 6.06 | 4.68 |
| 5    | 5.40 | 5.20 | 5.36 | 7.04 | 6.61 | 6.03  | 22.60 | ---  | 5.37 | 5.21 | 5.65 | 4.66 |
| 6    | 5.26 | 5.26 | 5.38 | 7.36 | 6.39 | 5.92  | 22.77 | ---  | 5.36 | 5.12 | 5.35 | 4.66 |
| 7    | 5.19 | 5.24 | 5.37 | 7.06 | 6.22 | 5.84  | 22.54 | ---  | 5.31 | 5.06 | 5.16 | 4.65 |
| 8    | 5.16 | 5.19 | 5.42 | 6.65 | 6.10 | 5.80  | 21.62 | ---  | 5.46 | 5.02 | 5.03 | 4.65 |
| 9    | 5.32 | 5.18 | 5.50 | 6.34 | 6.04 | 5.74  | 19.98 | ---  | 5.56 | 4.99 | 4.97 | 4.64 |
| 10   | 5.30 | 5.12 | 5.54 | 6.16 | 5.98 | 5.77  | 17.82 | ---  | 5.53 | 5.00 | 5.08 | 4.64 |
| 11   | 5.49 | 5.09 | 5.54 | 6.36 | 5.99 | 7.47  | 15.38 | ---  | 5.47 | 5.01 | 5.19 | 4.64 |
| 12   | 5.52 | 5.07 | 5.67 | 6.89 | 5.92 | 8.20  | 13.78 | ---  | 5.42 | 4.97 | 5.03 | 4.69 |
| 13   | 5.48 | 5.07 | 6.48 | 6.79 | 5.89 | 8.65  | 14.15 | ---  | 5.34 | 4.95 | 5.03 | 4.76 |
| 14   | 5.41 | 5.06 | 6.84 | 6.45 | 6.35 | 9.01  | 12.52 | ---  | 5.24 | 4.94 | 4.91 | 4.83 |
| 15   | 5.30 | 5.05 | 7.54 | 6.29 | 6.32 | 9.43  | 11.19 | ---  | 5.20 | 4.93 | 4.88 | 4.98 |
| 16   | 5.21 | 5.05 | 7.64 | 6.21 | 6.23 | 8.90  | 11.58 | ---  | 5.24 | 4.92 | 5.00 | 4.89 |
| 17   | 5.15 | 5.05 | 7.04 | 6.11 | 6.25 | 7.74  | 12.50 | 5.58 | 5.44 | 4.90 | 4.95 | 4.81 |
| 18   | 5.11 | 5.03 | 6.43 | 6.00 | 6.17 | 7.14  | 12.66 | 5.54 | 5.55 | 4.94 | 4.89 | 4.77 |
| 19   | 5.08 | 5.03 | 6.18 | 5.93 | 6.10 | 7.04  | 11.48 | 5.52 | 5.59 | 5.02 | 4.85 | 4.75 |
| 20   | 5.03 | 5.09 | 6.02 | 5.93 | 6.31 | 8.12  | 9.90  | 5.54 | 5.62 | 4.96 | 4.82 | 4.76 |
| 21   | 5.01 | 5.15 | 6.01 | 5.94 | 6.57 | 8.65  | 8.72  | 5.58 | 5.67 | 4.91 | 4.80 | 4.75 |
| 22   | 5.00 | 5.18 | 6.08 | 5.98 | 6.40 | 9.26  | 8.01  | 5.55 | 5.52 | 4.89 | 4.78 | 4.72 |
| 23   | 4.99 | 5.31 | 6.28 | 5.97 | 6.18 | 10.19 | 7.57  | 5.74 | 5.47 | 4.87 | 4.77 | 4.71 |
| 24   | 4.99 | 5.58 | 6.57 | 5.92 | 6.02 | 10.82 | 7.33  | 5.66 | 5.37 | 4.85 | 4.76 | 4.78 |
| 25   | 4.98 | 5.72 | 6.50 | 5.84 | 5.90 | 10.16 | 7.16  | 5.65 | 5.28 | 4.83 | 4.75 | 4.85 |
| 26   | 4.98 | 5.77 | 6.18 | 5.79 | 5.83 | 8.57  | 7.02  | 5.58 | 5.22 | 4.80 | 4.75 | 4.79 |
| 27   | 4.98 | 5.64 | 5.96 | 5.81 | 5.93 | 7.75  | 6.93  | 5.50 | 5.17 | 4.79 | 4.74 | 4.74 |
| 28   | 4.98 | 5.59 | 5.81 | 5.97 | 6.00 | 7.69  | 6.78  | 5.53 | 5.12 | 4.78 | 4.72 | 4.72 |
| 29   | 4.98 | 5.54 | 5.71 | 6.25 | 6.49 | 8.27  | 6.65  | 5.51 | 5.10 | 4.78 | 4.71 | 4.71 |
| 30   | 4.98 | 5.51 | 5.65 | 6.76 | ---  | 10.02 | 6.53  | 5.51 | 5.11 | 4.78 | 4.71 | 4.70 |
| 31   | 4.98 | ---  | 5.60 | 7.36 | ---  | 12.00 | ---   | 5.52 | ---  | 4.78 | 4.71 | ---  |
| MEAN | 5.29 | 5.23 | 6.00 | 6.28 | 6.34 | 7.95  | 13.00 | ---  | 5.38 | 4.97 | 4.99 | 4.73 |
| MAX  | 6.74 | 5.77 | 7.64 | 7.36 | 7.73 | 12.00 | 22.77 | ---  | 5.67 | 5.38 | 6.08 | 4.98 |
| MIN  | 4.98 | 4.98 | 5.36 | 5.54 | 5.83 | 5.74  | 6.53  | ---  | 5.10 | 4.78 | 4.71 | 4.64 |

## 02485700 HANGING MOSS CREEK AT JACKSON, MS

LOCATION.--Lat 32°21'53", long 90°08'41", in SW1/4 NE1/4 sec.13, T.6 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, on left bank of Hanging Moss Creek, 600 ft east of Old Canton Road, at Parham Bridges Park, 0.7 mi upstream from Whiteoak Creek, and 1.4 mi upstream from the mouth.

DRAINAGE AREA.--16.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1952 to September 1980 (annual maximums only). October 1980 to current year. Daily mean gage heights published since October 1980.

REVISED RECORDS.--WDR MS-85-1: 1984, WDR MS-90-1: 1983.

GAGE.--Water-stage recorder. Datum of gage is 260.00 ft above sea level. Prior to May 31, 1961, at datum 72.23 ft lower. From June 1, 1961 to July 10, 1980, at datum 1.33 ft higher. Prior to July 11, 1980, site located 0.6 mi upstream at downstream side of bridge on frontage road, 100 ft downstream from U. S. Highway 51 (Interstate 55).

REMARKS.--Estimated daily discharges: Apr. 5-16. Occasional backwater from the Pearl River. Records good except for estimated daily discharges, which are poor. Statistics shown below are for water years 1981 to current year, except for instantaneous extremes, which are shown for the entire period of record at the present datum. Telemeter and satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 3 | 1000 | *2,090                            | *15.16              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN   | FEB   | MAR    | APR     | MAY    | JUN    | JUL  | AUG   | SEP   |
|-------|--------|--------|--------|-------|-------|--------|---------|--------|--------|------|-------|-------|
| 1     | .40    | 81     | .45    | 1.4   | .31   | .51    | 69      | .08    | .26    | .21  | .38   | .56   |
| 2     | .29    | 5.0    | .49    | 1.0   | .27   | .47    | 293     | .10    | .22    | .14  | .48   | .61   |
| 3     | .22    | 5.3    | .80    | 46    | .29   | .37    | 940     | 81     | .19    | .14  | 1.5   | .36   |
| 4     | .19    | 4.9    | .87    | 17    | .25   | .28    | 343     | 22     | .62    | .18  | .54   | .36   |
| 5     | .19    | 4.4    | 6.8    | 1.4   | .26   | .31    | e20     | 1.6    | 112    | .16  | .39   | .30   |
| 6     | .17    | 3.4    | 2.2    | .46   | .29   | .32    | e13.3   | .54    | 4.2    | .12  | .42   | .39   |
| 7     | .16    | 2.2    | 1.2    | 2.4   | .27   | .28    | e6.2    | .29    | .62    | .13  | .46   | .55   |
| 8     | 4.2    | 1.3    | 1.7    | .28   | .38   | .57    | e4.0    | .15    | .30    | .14  | 1.9   | .56   |
| 9     | 11     | 1.2    | 1.8    | 2.8   | .37   | .51    | e2.6    | .10    | .19    | .23  | 2.0   | 2.5   |
| 10    | 1.1    | 1.4    | 1.9    | 3.0   | .33   | 114    | e2.0    | .14    | .15    | .80  | .55   | 1.2   |
| 11    | .51    | 1.5    | 1.6    | .85   | .28   | 153    | e1.5    | .10    | .18    | .56  | 14    | 8.1   |
| 12    | .36    | 1.5    | 61     | .44   | .37   | 3.5    | e1.2    | .10    | .24    | .50  | .57   | 19    |
| 13    | .26    | 1.5    | 23     | .41   | 6.2   | .82    | e.94    | 5.7    | .30    | .31  | .45   | 2.2   |
| 14    | .30    | 1.8    | 2.9    | .45   | 5.3   | .63    | e.78    | .37    | .28    | .21  | .50   | .36   |
| 15    | .25    | 1.4    | 1.2    | .29   | 1.4   | .69    | e.64    | .12    | 3.4    | .22  | .49   | .16   |
| 16    | .22    | 1.6    | .91    | .18   | .77   | 1.2    | e.56    | .07    | 1.7    | .19  | .62   | .11   |
| 17    | .25    | 1.7    | .73    | .30   | .63   | .54    | .47     | .06    | 15     | .16  | .41   | .08   |
| 18    | .26    | 1.5    | 2.5    | .38   | 1.1   | .34    | 1.2     | .07    | 4.8    | .44  | .41   | .07   |
| 19    | .23    | 1.6    | 2.3    | .30   | 9.3   | 42     | .73     | .06    | 132    | .38  | .39   | .10   |
| 20    | .21    | 3.6    | 1.9    | .24   | 2.1   | 8.9    | .50     | 6.2    | 85     | .32  | .32   | .08   |
| 21    | .26    | 1.0    | 24     | .23   | .89   | 1.2    | .39     | .59    | 19     | .24  | .29   | 1.3   |
| 22    | .19    | .64    | 4.6    | .28   | .59   | 17     | .33     | .20    | 2.4    | .30  | .40   | .90   |
| 23    | .17    | 2.7    | 2.0    | .40   | .42   | 2.8    | .34     | .13    | 1.1    | .30  | .43   | .61   |
| 24    | .21    | 3.0    | 1.2    | .38   | .38   | .63    | 1.5     | .12    | .58    | .30  | .37   | 1.1   |
| 25    | .25    | 23     | .96    | .37   | .33   | 3.3    | .23     | .10    | .38    | .26  | .48   | 2.6   |
| 26    | .41    | 4.7    | 1.1    | .41   | 4.9   | 71     | .21     | .10    | .29    | .24  | .45   | .52   |
| 27    | .43    | 1.9    | .81    | 1.2   | 8.4   | 48     | .31     | .10    | .52    | .40  | .47   | .23   |
| 28    | .49    | 1.2    | .80    | 10    | 1.5   | 5.0    | .15     | 1.0    | .27    | .38  | .44   | .15   |
| 29    | .49    | 2.2    | 1.3    | 2.7   | .70   | 8.8    | .14     | .37    | .26    | .26  | .44   | .11   |
| 30    | 5.0    | 1.1    | 1.2    | .88   | ---   | 6.9    | .10     | .44    | .30    | .26  | .46   | .10   |
| 31    | 155    | ---    | 1.5    | .47   | ---   | 1.2    | ---     | .35    | ---    | .26  | .44   | ---   |
| TOTAL | 183.67 | 169.24 | 155.72 | 96.90 | 48.58 | 495.07 | 1705.32 | 122.35 | 448.13 | 8.74 | 31.45 | 45.27 |
| MEAN  | 5.92   | 5.64   | 5.02   | 3.13  | 1.68  | 16.0   | 56.8    | 3.95   | 14.9   | .28  | 1.01  | 1.51  |
| MAX   | 155    | 81     | 61     | 46    | 9.3   | 153    | 940     | 81     | 132    | .80  | 14    | 19    |
| MIN   | .16    | .64    | .45    | .18   | .25   | .28    | .10     | .06    | .15    | .12  | .29   | .07   |
| CFSM  | .35    | .34    | .30    | .19   | .10   | .95    | 3.38    | .23    | .89    | .02  | .06   | .09   |
| IN.   | .41    | .37    | .34    | .21   | .11   | 1.10   | 3.78    | .27    | .99    | .02  | .07   | .10   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2000, BY WATER YEAR (WY)

|      | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 9.82 | 21.9 | 32.7 | 45.3 | 44.1 | 36.5 | 41.2 | 15.7 | 11.6 | 10.7 | 8.43 | 3.98 |      |      |      |      |      |      |      |      |
| MAX  | 57.3 | 95.6 | 201  | 146  | 142  | 71.4 | 159  | 49.5 | 39.8 | 35.9 | 31.1 | 12.2 |      |      |      |      |      |      |      |      |
| (WY) | 1986 | 1990 | 1983 | 1994 | 1994 | 1983 | 1983 | 1990 | 1997 | 1989 | 1982 | 1989 |      |      |      |      |      |      |      |      |
| MIN  | .11  | 2.01 | 1.59 | 1.47 | 1.68 | 14.6 | 1.13 | 1.17 | 1.55 | .28  | .98  | .59  |      |      |      |      |      |      |      |      |
| (WY) | 1999 | 1999 | 1981 | 1981 | 2000 | 1992 | 1992 | 1982 | 1995 | 2000 | 1991 | 1993 |      |      |      |      |      |      |      |      |

SUMMARY STATISTICS

|                          | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1981 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 5065.43                | 3510.44             |                         |
| ANNUAL MEAN              | 13.9                   | 9.59                | 23.4                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 57.5                    |
| LOWEST ANNUAL MEAN       |                        |                     | 9.59                    |
| HIGHEST DAILY MEAN       | 1320                   | 940                 | 1780                    |
| LOWEST DAILY MEAN        | .05 Sep 22             | .06 May 17          | .01 Sep 19 1988         |
| ANNUAL SEVEN-DAY MINIMUM | .06 Sep 21             | .14 Sep 14          | .04 Sep 2 1998          |
| INSTANTANEOUS PEAK FLOW  |                        | 2090                | 5320                    |
| INSTANTANEOUS PEAK STAGE |                        | 15.16               | 27.37                   |
| INSTANTANEOUS LOW FLOW   |                        | .05 May 17,18,19    | .01 Nov 16 1987         |
| ANNUAL RUNOFF (CFSM)     | .83                    | .57                 | 1.39                    |
| ANNUAL RUNOFF (INCHES)   | 11.22                  | 7.77                | 18.91                   |
| 10 PERCENT EXCEEDS       | 20                     | 8.2                 | 36                      |
| 50 PERCENT EXCEEDS       | 1.2                    | .50                 | 2.0                     |
| 90 PERCENT EXCEEDS       | .11                    | .16                 | .29                     |

e Estimated

## PEARL RIVER BASIN

107

02485700 HANGING MOSS CREEK AT JACKSON, MS

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1    | 8.01 | 9.44 | 8.03 | 8.53 | 8.38 | 8.29 | 9.00  | 7.90 | 8.06 | 7.90 | 7.93 | 8.01 |
| 2    | 7.93 | 8.69 | 8.06 | 8.45 | 8.36 | 8.27 | 10.50 | 7.94 | 8.03 | 7.81 | 8.02 | 8.05 |
| 3    | 7.88 | 8.73 | 8.17 | 9.00 | 8.37 | 8.21 | 12.35 | 8.78 | 8.00 | 7.81 | 8.21 | 7.93 |
| 4    | 7.85 | 8.70 | 8.20 | 9.13 | 8.33 | 8.15 | 10.79 | 9.10 | 8.74 | 7.86 | 8.04 | 7.93 |
| 5    | 7.84 | 8.66 | 8.72 | 8.71 | 8.34 | 8.17 | 11.92 | 8.49 | 9.76 | 7.84 | 7.96 | 7.89 |
| 6    | 7.83 | 8.58 | 8.44 | 8.47 | 8.36 | 8.18 | 11.36 | 8.22 | 8.70 | 7.77 | 7.98 | 7.94 |
| 7    | 7.81 | 8.45 | 8.29 | 8.64 | 8.35 | 8.15 | 10.74 | 8.09 | 8.26 | 7.80 | 8.00 | 8.02 |
| 8    | 8.12 | 8.31 | 8.36 | 8.36 | 8.43 | 8.30 | 10.28 | 7.94 | 8.09 | 7.82 | 8.16 | 8.03 |
| 9    | 8.86 | 8.30 | 8.38 | 8.76 | 8.42 | 8.28 | 10.18 | 7.87 | 8.00 | 7.90 | 8.33 | 8.31 |
| 10   | 8.24 | 8.33 | 8.41 | 8.83 | 8.39 | 9.23 | 9.74  | 7.93 | 7.95 | 8.19 | 8.02 | 8.23 |
| 11   | 8.06 | 8.35 | 8.37 | 8.59 | 8.36 | 9.90 | 10.31 | 7.87 | 7.98 | 8.12 | 8.59 | 8.48 |
| 12   | 7.98 | 8.34 | 9.03 | 8.46 | 8.42 | 8.74 | 9.21  | 7.87 | 8.05 | 8.09 | 8.04 | 8.83 |
| 13   | 7.91 | 8.35 | 9.15 | 8.44 | 8.64 | 8.40 | 9.89  | 8.59 | 8.07 | 7.98 | 7.98 | 8.50 |
| 14   | 7.94 | 8.38 | 8.70 | 8.47 | 8.85 | 8.32 | 8.98  | 8.12 | 8.08 | 7.89 | 8.00 | 8.11 |
| 15   | 7.90 | 8.33 | 8.47 | 8.36 | 8.53 | 8.32 | 8.62  | 7.91 | 8.61 | 7.90 | 8.00 | 7.94 |
| 16   | 7.88 | 8.37 | 8.41 | 8.26 | 8.39 | 8.49 | 8.36  | 7.80 | 8.36 | 7.87 | 8.05 | 7.86 |
| 17   | 7.90 | 8.38 | 8.35 | 8.37 | 8.34 | 8.30 | 8.27  | 7.77 | 8.75 | 7.82 | 7.96 | 7.80 |
| 18   | 7.91 | 8.35 | 8.60 | 8.43 | 8.38 | 8.19 | 8.33  | 7.80 | 8.66 | 8.02 | 7.96 | 7.78 |
| 19   | 7.89 | 8.37 | 8.65 | 8.37 | 9.00 | 9.06 | 8.35  | 7.77 | 9.24 | 8.01 | 7.94 | 7.84 |
| 20   | 7.87 | 8.54 | 8.53 | 8.32 | 8.64 | 8.96 | 8.28  | 8.68 | 9.51 | 7.97 | 7.90 | 7.81 |
| 21   | 7.92 | 8.24 | 9.19 | 8.31 | 8.42 | 8.48 | 8.22  | 8.22 | 9.04 | 7.89 | 7.88 | 8.02 |
| 22   | 7.84 | 8.12 | 8.82 | 8.36 | 8.32 | 9.12 | 8.19  | 8.00 | 8.50 | 7.94 | 7.95 | 8.31 |
| 23   | 7.83 | 8.10 | 8.62 | 8.44 | 8.24 | 8.68 | 8.16  | 7.92 | 8.28 | 7.95 | 7.97 | 8.23 |
| 24   | 7.87 | 8.49 | 8.47 | 8.43 | 8.22 | 8.33 | 8.46  | 7.90 | 8.13 | 7.94 | 7.93 | 8.29 |
| 25   | 7.91 | 8.93 | 8.42 | 8.42 | 8.19 | 8.52 | 8.10  | 7.86 | 8.03 | 7.90 | 7.99 | 8.53 |
| 26   | 8.02 | 8.66 | 8.45 | 8.44 | 8.37 | 9.45 | 8.08  | 7.87 | 7.97 | 7.89 | 7.97 | 8.19 |
| 27   | 8.03 | 8.41 | 8.38 | 8.53 | 8.94 | 9.43 | 8.15  | 7.87 | 8.03 | 7.93 | 7.99 | 8.01 |
| 28   | 8.06 | 8.28 | 8.37 | 9.10 | 8.54 | 8.84 | 8.01  | 8.30 | 7.95 | 7.98 | 7.97 | 7.92 |
| 29   | 8.06 | 8.42 | 8.51 | 8.85 | 8.36 | 8.90 | 8.01  | 8.14 | 7.95 | 7.89 | 7.97 | 7.87 |
| 30   | 8.39 | 8.27 | 8.49 | 8.62 | ---  | 8.92 | 7.94  | 8.18 | 7.97 | 7.89 | 7.98 | 7.84 |
| 31   | 9.69 | ---  | 8.55 | 8.48 | ---  | 8.48 | ---   | 8.13 | ---  | 7.89 | 7.97 | ---  |
| MEAN | 8.04 | 8.46 | 8.50 | 8.55 | 8.44 | 8.61 | 9.23  | 8.09 | 8.36 | 7.92 | 8.02 | 8.08 |
| MAX  | 9.69 | 9.44 | 9.19 | 9.13 | 9.00 | 9.90 | 12.35 | 9.10 | 9.76 | 8.19 | 8.59 | 8.83 |
| MIN  | 7.81 | 8.10 | 8.03 | 8.26 | 8.19 | 8.15 | 7.94  | 7.77 | 7.95 | 7.77 | 7.88 | 7.78 |

## 02486000 PEARL RIVER AT JACKSON, MS

LOCATION.--Lat 32°16'53", long 90°10'44", in NW1/4 NE1/4 sec.16, T.5 N., R.1 E., Choctaw Meridian, Rankin County. Hydrologic Unit 03180002, on left bank at downstream side of bridge on U.S. Highway 80 at eastern city limits of Jackson, 0.4 mi downstream from Illinois Central and Gulf Railroad bridge, 0.4 mi downstream from Town Creek, 4.2 mi upstream from Richland Creek, and at mile 287.0.

DRAINAGE AREA.--3,171 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1901 to December 1912 (prior to October 1901 and for 1913 water year, gage heights only), August 1928 to current year. Daily mean gage heights published since October 1971. Gage-height records collected at Woodrow Wilson Bridge, 0.6 mi upstream, 1904 to 1971 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 662: Drainage area. WSP 1504: 1903, 1909. WSP 1906: 1902(M). WDR MS-87-1: 1984.

GAGE.--Water-stage recorder. Datum of gage is 233.70 ft above sea level. Prior to Dec. 31, 1913, and Aug. 15, 1928 to Sept. 14, 1934, nonrecording gage. Prior to Oct. 1, 1975, at site at Woodrow Wilson Bridge, 0.6 mi upstream, at datum 1.20 ft higher. Since Oct. 1, 1962, supplementary water-stage recorder and concrete control at Jackson waterworks pumping plant, 3.8 mi upstream (channel change). Datum of supplementary gage is 239.40 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. About 48 ft<sup>3</sup>/s is diverted upstream from station for municipal water supply for City of Jackson, most of which was returned to river and included in discharge records prior to the opening of the City of Jackson Waste Water Treatment Plant at Savannah Street Extension in 1975. Flow regulated since Sept. 27, 1961, by Ross R. Barnett Reservoir, 15 mi upstream. Statistics shown below are for water years 1962 to current year except instantaneous extremes, which are shown for the entire period of record. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--According to information by local residents and from newspaper records, the flood of Apr. 25, 1874, reached a stage of 37 ft and the flood of Dec. 5, 1880, reached a stage of 36 1/2 ft, at former site and datum. The flood of Apr. 21, 1900, reached a stage of 36.7 ft, according to the Alabama and Vicksburg Railroad plans confirmed by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB  | MAR   | APR    | MAY   | JUN   | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|------|-------|--------|-------|-------|------|------|------|
| 1     | 242  | 2260  | 294   | 298   | 314  | 308   | 3000   | 578   | 360   | 317  | 319  | 240  |
| 2     | 228  | 468   | 294   | 300   | 308  | 301   | 5670   | 570   | 352   | 317  | 324  | 241  |
| 3     | 218  | 338   | 300   | 436   | 309  | 296   | 14000  | 862   | 347   | 313  | 322  | 237  |
| 4     | 217  | 325   | 297   | 678   | 306  | 305   | 22600  | 863   | 566   | 301  | 326  | 232  |
| 5     | 216  | 301   | 352   | 356   | 307  | 304   | 27400  | 583   | 983   | 302  | 306  | 229  |
| 6     | 209  | 294   | 320   | 318   | 306  | 301   | 27900  | 547   | 485   | 306  | 299  | 231  |
| 7     | 121  | 293   | 299   | 310   | 310  | 300   | 26300  | 531   | 356   | 303  | 288  | 238  |
| 8     | 293  | 289   | 274   | 302   | 304  | 298   | 24800  | 518   | 339   | 304  | 284  | 249  |
| 9     | 588  | 282   | 285   | 360   | 301  | 299   | 24500  | 507   | 330   | 303  | 257  | 278  |
| 10    | 354  | 295   | 293   | 372   | 303  | 642   | 23500  | 504   | 321   | 320  | 245  | 240  |
| 11    | 314  | 296   | 294   | 322   | 301  | 2380  | 24200  | 491   | 313   | 307  | 359  | 248  |
| 12    | 301  | 287   | 505   | 308   | 302  | 795   | 21700  | 482   | 311   | 303  | 282  | 410  |
| 13    | 302  | 292   | 943   | 307   | 329  | 922   | 18500  | 541   | 305   | 303  | 269  | 321  |
| 14    | 297  | 291   | 392   | 306   | 379  | 1890  | 15000  | 491   | 316   | 301  | 265  | 245  |
| 15    | 294  | 289   | 325   | 312   | 327  | 1850  | 11800  | 471   | 323   | 299  | 267  | 230  |
| 16    | 285  | 286   | 312   | 316   | 310  | 1620  | 8260   | 448   | 387   | 300  | 261  | 225  |
| 17    | 285  | 289   | 312   | 316   | 306  | 1410  | 4920   | 449   | 631   | 299  | 241  | 227  |
| 18    | 287  | 291   | 325   | 311   | 305  | 1390  | 3280   | 440   | 758   | 302  | 240  | 225  |
| 19    | 284  | 291   | 334   | 298   | 403  | 1820  | 2870   | 431   | 528   | 304  | 242  | 218  |
| 20    | 286  | 315   | 320   | 298   | 334  | 2290  | 2280   | 572   | 1150  | 295  | 247  | 221  |
| 21    | 284  | 305   | 563   | 302   | 309  | 2470  | 1350   | 513   | 452   | 285  | 239  | 237  |
| 22    | 279  | 298   | 427   | 311   | 302  | 2930  | 811    | 437   | 348   | 295  | 236  | 266  |
| 23    | 286  | 305   | 335   | 320   | 299  | 2710  | 1030   | 417   | 329   | 302  | 246  | 235  |
| 24    | 289  | 384   | 321   | 308   | 298  | 2050  | 2220   | 405   | 318   | 296  | 246  | 260  |
| 25    | 288  | 553   | 316   | 304   | 300  | 1730  | 1610   | 396   | 313   | 285  | 243  | 298  |
| 26    | 287  | 432   | 315   | 303   | 327  | 3080  | 768    | 391   | 311   | 289  | 241  | 240  |
| 27    | 283  | 322   | 311   | 306   | 468  | 4440  | 648    | 385   | 312   | 290  | 245  | 227  |
| 28    | 282  | 305   | 308   | 471   | 336  | 2420  | 630    | 427   | 335   | 306  | 244  | 222  |
| 29    | 281  | 295   | 310   | 388   | 309  | 1930  | 609    | 398   | 337   | 307  | 236  | 220  |
| 30    | 313  | 293   | 305   | 337   | ---  | 2230  | 595    | 376   | 320   | 303  | 236  | 221  |
| 31    | 1130 | ---   | 300   | 319   | ---  | 2170  | ---    | 368   | ---   | 305  | 235  | ---  |
| TOTAL | 9623 | 11564 | 10881 | 10493 | 9312 | 47881 | 322751 | 15392 | 12836 | 9362 | 8290 | 7411 |
| MEAN  | 310  | 385   | 351   | 338   | 321  | 1545  | 10760  | 497   | 428   | 302  | 267  | 247  |
| MAX   | 1130 | 2260  | 943   | 678   | 468  | 4440  | 27900  | 863   | 1150  | 320  | 359  | 410  |
| MIN   | 121  | 282   | 274   | 298   | 298  | 296   | 595    | 368   | 305   | 285  | 235  | 218  |
| CFSM  | .10  | .12   | .11   | .11   | .10  | .49   | 3.39   | .16   | .13   | .10  | .08  | .08  |
| IN.   | .11  | .14   | .13   | .12   | .11  | .56   | 3.79   | .18   | .15   | .11  | .10  | .09  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

|      | MEAN | 1969 | 1955  | 5705  | 8554  | 8933  | 9245  | 9276  | 4639 | 1475 | 1072 | 890  | 713 |
|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|
| MAX  | 8174 | 6663 | 26640 | 28310 | 24940 | 23560 | 34330 | 22880 | 7278 | 6454 | 7996 | 6790 |     |
| (WY) | 1976 | 1980 | 1983  | 1974  | 1983  | 1980  | 1979  | 1983  | 1997 | 1989 | 1975 | 1979 |     |
| MIN  | 94.7 | 85.3 | 271   | 338   | 321   | 1545  | 448   | 280   | 133  | 180  | 197  | 138  |     |
| (WY) | 1964 | 1964 | 1963  | 2000  | 2000  | 2000  | 1986  | 1992  | 1963 | 1984 | 1969 | 1963 |     |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1962 - 2000

|                          |        |  |  |  |  |  |  |  |  |        |  |  |             |
|--------------------------|--------|--|--|--|--|--|--|--|--|--------|--|--|-------------|
| ANNUAL TOTAL             | 942793 |  |  |  |  |  |  |  |  |        |  |  |             |
| ANNUAL MEAN              | 2583   |  |  |  |  |  |  |  |  |        |  |  |             |
| HIGHEST ANNUAL MEAN      |        |  |  |  |  |  |  |  |  | 4431   |  |  |             |
| LOWEST ANNUAL MEAN       |        |  |  |  |  |  |  |  |  | 12000  |  |  | 1983        |
| HIGHEST DAILY MEAN       |        |  |  |  |  |  |  |  |  | 942    |  |  | 1963        |
| LOWEST DAILY MEAN        |        |  |  |  |  |  |  |  |  | 126000 |  |  | Apr 17 1979 |
| ANNUAL SEVEN-DAY MINIMUM |        |  |  |  |  |  |  |  |  | 45     |  |  | Sep 18 1963 |
| INSTANTANEOUS PEAK FLOW  |        |  |  |  |  |  |  |  |  | 63     |  |  | Sep 17 1963 |
| INSTANTANEOUS PEAK STAGE |        |  |  |  |  |  |  |  |  | 128000 |  |  | Apr 17 1979 |
| ANNUAL RUNOFF (CFSM)     |        |  |  |  |  |  |  |  |  | 31.66  |  |  | Apr 17 1979 |
| ANNUAL RUNOFF (INCHES)   |        |  |  |  |  |  |  |  |  | .41    |  |  |             |
| 10 PERCENT EXCEEDS       |        |  |  |  |  |  |  |  |  | 5.58   |  |  |             |
| 50 PERCENT EXCEEDS       |        |  |  |  |  |  |  |  |  | 1830   |  |  |             |
| 90 PERCENT EXCEEDS       |        |  |  |  |  |  |  |  |  | 310    |  |  |             |
|                          |        |  |  |  |  |  |  |  |  | 242    |  |  |             |
|                          |        |  |  |  |  |  |  |  |  | 13000  |  |  |             |
|                          |        |  |  |  |  |  |  |  |  | 1220   |  |  |             |
|                          |        |  |  |  |  |  |  |  |  | 255    |  |  |             |

## PEARL RIVER BASIN

109

02486000 PEARL RIVER AT JACKSON, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1    | 3.70 | 8.98 | 3.90 | 3.92 | 3.98 | 3.96  | 10.51 | 4.66 | 4.22 | 4.10 | 4.00 | 3.68 |
| 2    | 3.64 | 4.53 | 3.90 | 3.92 | 3.96 | 3.93  | 15.55 | 4.64 | 4.20 | 4.09 | 4.02 | 3.69 |
| 3    | 3.59 | 4.07 | 3.92 | 4.37 | 3.96 | 3.91  | 25.13 | 5.46 | 4.19 | 4.07 | 4.01 | 3.67 |
| 4    | 3.59 | 4.02 | 3.91 | 5.20 | 3.95 | 3.94  | 29.65 | 5.55 | 4.90 | 4.03 | 4.02 | 3.65 |
| 5    | 3.58 | 3.93 | 4.12 | 4.14 | 3.95 | 3.94  | 31.31 | 4.72 | 6.22 | 4.02 | 3.95 | 3.64 |
| 6    | 3.55 | 3.90 | 4.00 | 3.99 | 3.95 | 3.93  | 31.45 | 4.61 | 4.71 | 4.04 | 3.92 | 3.64 |
| 7    | 3.14 | 3.89 | 3.92 | 3.96 | 3.96 | 3.92  | 31.00 | 4.57 | 4.27 | 4.02 | 3.88 | 3.67 |
| 8    | 3.89 | 3.88 | 3.82 | 3.93 | 3.94 | 3.91  | 30.49 | 4.53 | 4.21 | 4.02 | 3.86 | 3.72 |
| 9    | 4.93 | 3.85 | 3.87 | 4.15 | 3.93 | 3.92  | 30.39 | 4.51 | 4.19 | 4.01 | 3.75 | 3.83 |
| 10   | 4.13 | 3.90 | 3.90 | 4.20 | 3.94 | 4.84  | 30.03 | 4.51 | 4.17 | 4.07 | 3.70 | 3.68 |
| 11   | 3.98 | 3.91 | 3.90 | 4.01 | 3.93 | 9.11  | 30.30 | 4.47 | 4.15 | 4.02 | 4.14 | 3.71 |
| 12   | 3.93 | 3.87 | 4.56 | 3.96 | 3.93 | 4.95  | 29.35 | 4.45 | 4.15 | 4.00 | 3.85 | 4.32 |
| 13   | 3.93 | 3.89 | 5.97 | 3.95 | 4.03 | 5.27  | 28.00 | 4.66 | 4.13 | 4.00 | 3.80 | 4.00 |
| 14   | 3.91 | 3.89 | 4.27 | 3.95 | 4.22 | 7.90  | 26.09 | 4.50 | 4.17 | 3.98 | 3.79 | 3.70 |
| 15   | 3.90 | 3.88 | 4.02 | 3.97 | 4.03 | 7.78  | 23.67 | 4.45 | 4.19 | 3.97 | 3.79 | 3.64 |
| 16   | 3.87 | 3.87 | 3.97 | 3.98 | 3.96 | 7.17  | 19.81 | 4.37 | 4.41 | 3.97 | 3.77 | 3.62 |
| 17   | 3.87 | 3.88 | 3.97 | 3.99 | 3.95 | 6.65  | 14.24 | 4.39 | 5.18 | 3.96 | 3.69 | 3.63 |
| 18   | 3.87 | 3.89 | 4.02 | 3.97 | 3.94 | 6.62  | 11.13 | 4.37 | 5.62 | 3.96 | 3.68 | 3.62 |
| 19   | 3.86 | 3.89 | 4.06 | 3.92 | 4.31 | 7.71  | 10.29 | 4.35 | 4.90 | 3.97 | 3.69 | 3.59 |
| 20   | 3.87 | 3.98 | 4.00 | 3.92 | 4.06 | 8.93  | 9.02  | 4.83 | 6.62 | 3.93 | 3.71 | 3.60 |
| 21   | 3.86 | 3.94 | 4.85 | 3.93 | 3.96 | 9.38  | 6.79  | 4.65 | 4.63 | 3.89 | 3.68 | 3.67 |
| 22   | 3.84 | 3.92 | 4.39 | 3.97 | 3.93 | 10.43 | 5.32  | 4.40 | 4.26 | 3.92 | 3.67 | 3.79 |
| 23   | 3.87 | 3.94 | 4.06 | 4.00 | 3.92 | 9.95  | 5.90  | 4.34 | 4.18 | 3.94 | 3.71 | 3.66 |
| 24   | 3.88 | 4.23 | 4.01 | 3.95 | 3.92 | 8.33  | 8.89  | 4.30 | 4.13 | 3.92 | 3.71 | 3.76 |
| 25   | 3.88 | 4.78 | 3.99 | 3.94 | 3.92 | 7.45  | 7.44  | 4.28 | 4.11 | 3.87 | 3.69 | 3.91 |
| 26   | 3.87 | 4.41 | 3.98 | 3.94 | 4.02 | 10.60 | 5.20  | 4.28 | 4.10 | 3.88 | 3.69 | 3.68 |
| 27   | 3.86 | 4.01 | 3.97 | 3.95 | 4.53 | 13.38 | 4.84  | 4.26 | 4.10 | 3.88 | 3.70 | 3.63 |
| 28   | 3.85 | 3.94 | 3.95 | 4.55 | 4.06 | 9.19  | 4.80  | 4.42 | 4.18 | 3.95 | 3.70 | 3.61 |
| 29   | 3.85 | 3.90 | 3.96 | 4.25 | 3.96 | 7.99  | 4.74  | 4.33 | 4.19 | 3.95 | 3.67 | 3.60 |
| 30   | 3.97 | 3.90 | 3.94 | 4.07 | ---  | 8.82  | 4.70  | 4.26 | 4.11 | 3.94 | 3.67 | 3.60 |
| 31   | 6.20 | ---  | 3.93 | 4.00 | ---  | 8.70  | ---   | 4.24 | ---  | 3.95 | 3.66 | ---  |
| MEAN | 3.92 | 4.16 | 4.10 | 4.06 | 4.00 | 6.98  | 17.53 | 4.53 | 4.49 | 3.98 | 3.79 | 3.71 |
| MAX  | 6.20 | 8.98 | 5.97 | 5.20 | 4.53 | 13.38 | 31.45 | 5.55 | 6.62 | 4.10 | 4.14 | 4.32 |
| MIN  | 3.14 | 3.85 | 3.82 | 3.92 | 3.92 | 3.91  | 4.70  | 4.24 | 4.10 | 3.87 | 3.66 | 3.59 |



## PEARL RIVER BASIN

02487500 STRONG RIVER AT D'LO, MS

LOCATION.--Lat 31°58'40", long 89°53'51", in NW1/4 SE1/4 SW1/4 sec.28, T.2 N., R.4 E., Choctaw Meridian, Simpson County, Hydrologic Unit 03180002, on left bank at downstream side of bridge on old U.S. Highway 49, 460 ft upstream from Illinois Central Railroad bridge, 0.2 mi south of D'Lo, 1,500 ft downstream from Sellers Creek, 1.6 mi upstream from Dabbs Creek, and 2 mi northwest of Mendenhall.

DRAINAGE AREA.--425 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1928 to September 1970; Oct. 1970 to Sept. 1993 (annual peaks only), Oct. 1993 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 697: 1929. WSP 872: Drainage area. WSP 1504: 1932-34, 1938, 1949-50 (M). WDR MS-80-1: Drainage Area.

GAGE.--Water-stage recorder. Datum of gage is 257.99 ft above sea level (U. S. Army Corps of Engineers bench mark). Prior to Oct. 19, 1938, nonrecording gage at site 700 ft upstream at datum 5.0 ft higher.

REMARKS.--Estimated daily discharges: Dec.28-29. Records good except for estimated daily discharges, which are poor. Statistics shown below are for water years 1929 to 1970 and 1994 through the current year, except instantaneous extremes which are shown for the entire period of record. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft<sup>3</sup>/s, and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 4 | 1200 | *5,360                            | *18.77              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1     | 64   | 112  | 44   | 59   | 80   | 71   | 230   | 64   | 30   | 35   | 28   | 16   |
| 2     | 49   | 108  | 43   | 57   | 70   | 64   | 681   | 60   | 29   | 31   | 32   | 16   |
| 3     | 49   | 72   | 42   | 127  | 65   | 58   | 3420  | 60   | 28   | 30   | 38   | 14   |
| 4     | 44   | 51   | 43   | 779  | 61   | 53   | 5190  | 62   | 28   | 28   | 336  | 13   |
| 5     | 37   | 47   | 52   | 318  | 57   | 50   | 3220  | 66   | 33   | 26   | 86   | 13   |
| 6     | 33   | 43   | 55   | 159  | 56   | 48   | 1920  | 78   | 37   | 25   | 42   | 13   |
| 7     | 31   | 39   | 49   | 117  | 53   | 47   | 805   | 88   | 39   | 23   | 31   | 15   |
| 8     | 38   | 37   | 48   | 93   | 53   | 46   | 382   | 83   | 34   | 24   | 25   | 17   |
| 9     | 160  | 35   | 52   | 85   | 52   | 46   | 282   | 77   | 32   | 22   | 22   | 70   |
| 10    | 180  | 35   | 53   | 82   | 52   | 50   | 218   | 64   | 31   | 27   | 20   | 21   |
| 11    | 112  | 36   | 51   | 92   | 52   | 188  | 182   | 57   | 29   | 24   | 26   | 22   |
| 12    | 77   | 36   | 134  | 91   | 52   | 263  | 164   | 51   | 26   | 20   | 20   | 52   |
| 13    | 68   | 35   | 1340 | 88   | 52   | 173  | 441   | 47   | 26   | 19   | 19   | 52   |
| 14    | 54   | 35   | 574  | 74   | 52   | 143  | 498   | 44   | 27   | 18   | 17   | 33   |
| 15    | 45   | 36   | 297  | 66   | 50   | 98   | 394   | 41   | 34   | 18   | 16   | 31   |
| 16    | 40   | 36   | 165  | 62   | 50   | 85   | 292   | 40   | 169  | 17   | 16   | 35   |
| 17    | 37   | 35   | 106  | 60   | 51   | 74   | 209   | 39   | 116  | 20   | 15   | 34   |
| 18    | 35   | 35   | 84   | 60   | 67   | 68   | 160   | 38   | 79   | 33   | 15   | 27   |
| 19    | 34   | 35   | 88   | 59   | 76   | 282  | 129   | 37   | 157  | 24   | 15   | 23   |
| 20    | 34   | 38   | 81   | 58   | 72   | 799  | 109   | 38   | 384  | 22   | 15   | 21   |
| 21    | 32   | 39   | 100  | 56   | 67   | 622  | 94    | 48   | 307  | 20   | 15   | 24   |
| 22    | 32   | 39   | 101  | 54   | 61   | 414  | 83    | 43   | 123  | 20   | 14   | 43   |
| 23    | 31   | 39   | 89   | 58   | 63   | 422  | 78    | 49   | 74   | 24   | 14   | 31   |
| 24    | 31   | 39   | 75   | 61   | 55   | 279  | 137   | 53   | 54   | 21   | 14   | 34   |
| 25    | 31   | 43   | 69   | 60   | 52   | 208  | 146   | 45   | 45   | 18   | 13   | 45   |
| 26    | 31   | 48   | 64   | 57   | 51   | 431  | 105   | 40   | 45   | 17   | 13   | 28   |
| 27    | 31   | 46   | 62   | 57   | 98   | 604  | 100   | 36   | 37   | 16   | 13   | 23   |
| 28    | 31   | 44   | e58  | 73   | 102  | 547  | 91    | 37   | 48   | 16   | 14   | 21   |
| 29    | 31   | 42   | e56  | 82   | 80   | 458  | 79    | 35   | 59   | 16   | 13   | 19   |
| 30    | 33   | 42   | 55   | 86   | ---  | 277  | 70    | 32   | 42   | 16   | 13   | 19   |
| 31    | 67   | ---  | 54   | 82   | ---  | 187  | ---   | 31   | ---  | 21   | 12   | ---  |
| TOTAL | 1602 | 1357 | 4184 | 3312 | 1802 | 7155 | 19909 | 1583 | 2202 | 691  | 982  | 775  |
| MEAN  | 51.7 | 45.2 | 135  | 107  | 62.1 | 231  | 664   | 51.1 | 73.4 | 22.3 | 31.7 | 25.8 |
| MAX   | 180  | 112  | 1340 | 779  | 102  | 799  | 5190  | 88   | 384  | 35   | 336  | 52   |
| MIN   | 31   | 35   | 42   | 54   | 50   | 46   | 70    | 31   | 26   | 16   | 12   | 13   |
| CFSM  | .12  | .11  | .32  | .25  | .15  | .54  | 1.56  | .12  | .17  | .05  | .07  | .06  |
| IN.   | .14  | .12  | .37  | .29  | .16  | .63  | 1.74  | .14  | .19  | .06  | .09  | .06  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 94.5 | 298  | 519  | 964  | 1213 | 1218 | 1037 | 501  | 187  | 256  | 124  | 90.7 |
| MAX  | 843  | 2214 | 3150 | 3321 | 2747 | 2758 | 3909 | 2695 | 1020 | 2853 | 508  | 450  |
| (WY) | 1965 | 1949 | 1933 | 1937 | 1950 | 1935 | 1938 | 1953 | 1997 | 1940 | 1938 | 1958 |
| MIN  | 17.8 | 23.7 | 65.3 | 63.5 | 62.1 | 175  | 94.9 | 36.7 | 46.2 | 22.3 | 29.2 | 20.3 |
| (WY) | 1964 | 1937 | 1934 | 1934 | 2000 | 1955 | 1963 | 1963 | 1960 | 2000 | 1943 | 1954 |

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1929 - 2000 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |        |        |       |        |       |             |
|--------------------------|--------|--------|-------|--------|-------|-------------|
| ANNUAL TOTAL             | 108456 |        | 45554 |        |       |             |
| ANNUAL MEAN              | 297    |        | 124   |        | 538   |             |
| HIGHEST ANNUAL MEAN      |        |        |       |        | 1090  | 1949        |
| LOWEST ANNUAL MEAN       |        |        |       |        | 124   | 2000        |
| HIGHEST DAILY MEAN       | 8610   | Jan 31 | 5190  | Apr 4  | 20900 | Jan 7 1950  |
| LOWEST DAILY MEAN        | 24     | Aug 23 | 12    | Aug 31 | 12    | Aug 31 2000 |
| ANNUAL SEVEN-DAY MINIMUM | 25     | Aug 17 | 13    | Aug 25 | 13    | Aug 25 2000 |
| INSTANTANEOUS PEAK FLOW  |        |        | 5360  | Apr 4  | 26400 | Apr 7 1983  |
| INSTANTANEOUS PEAK STAGE |        |        | 18.77 | Apr 4  | 33.48 | Apr 7 1983  |
| ANNUAL RUNOFF (CFSM)     | .70    |        | .29   |        | 1.27  |             |
| ANNUAL RUNOFF (INCHES)   | 9.49   |        | 3.99  |        | 17.21 |             |
| 10 PERCENT EXCEEDS       | 607    |        | 194   |        | 1420  |             |
| 50 PERCENT EXCEEDS       | 58     |        | 49    |        | 120   |             |
| 90 PERCENT EXCEEDS       | 31     |        | 19    |        | 33    |             |

e Estimated

## 02488000 PEARL RIVER AT ROCKPORT, MS

LOCATION.--Lat 31°47'28", long 90°08'33", in NW1/4 sec.31, T.10 N., R.11 E., Washington Meridian, Copiah County, Hydrologic Unit 03180003, on downstream side of bridge on right bank on county road between Rockport and Shivers, approximately 1.0 mi upstream from Sinkler Creek, 2.0 mi south of Rockport, 7.5 mi downstream from Strong River, and 221.7 mi upstream from the mouth.

DRAINAGE AREA.--4,556 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1938 to September 1951, (monthly discharge only prior to June 1939), October 1984 to current year. Daily mean gage heights published since October 1984.

GAGE.--Water-stage recorder. Datum of gage is 180.19 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since September 27, 1961 by Ross R. Barnett Reservoir, about 80 mi upstream. Statistics shown below are for water years 1985 to current year, except instantaneous extremes, which are shown for the entire period of record. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1979, reached a stage of 42.83 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft<sup>3</sup>/s, and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 9 | 0500 | *27,200                           | *25.18              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 1     | 1340  | 2490  | 565   | 672   | 830   | 791   | 3440   | 997   | 595   | 621   | 538   | 404   |
| 2     | 792   | 4390  | 578   | 675   | 766   | 686   | 4730   | 931   | 582   | 600   | 508   | 394   |
| 3     | 588   | 2290  | 579   | 788   | 723   | 650   | 15500  | 899   | 571   | 570   | 574   | 392   |
| 4     | 510   | 1160  | 571   | 1890  | 690   | 620   | 25300  | 999   | 561   | 546   | 774   | 393   |
| 5     | 470   | 818   | 596   | 2190  | 673   | 603   | 27000  | 1800  | 625   | 529   | 909   | 382   |
| 6     | 448   | 717   | 617   | 1590  | 657   | 603   | 26500  | 1320  | 1840  | 506   | 658   | 376   |
| 7     | 436   | 662   | 672   | 1100  | 647   | 593   | 26800  | 1010  | 1560  | 495   | 538   | 375   |
| 8     | 449   | 614   | 608   | 912   | 645   | 586   | 27100  | 921   | 909   | 491   | 492   | 388   |
| 9     | 706   | 585   | 567   | 844   | 645   | 583   | 27200  | 860   | 692   | 489   | 466   | 440   |
| 10    | 1190  | 565   | 558   | 859   | 639   | 592   | 26900  | 827   | 635   | 570   | 470   | 488   |
| 11    | 1250  | 549   | 571   | 972   | 636   | 1820  | 26600  | 794   | 608   | 973   | 504   | 526   |
| 12    | 902   | 548   | 657   | 975   | 633   | 5250  | 26300  | 774   | 576   | 636   | 470   | 511   |
| 13    | 722   | 545   | 3900  | 870   | 627   | 3200  | 26200  | 747   | 561   | 519   | 545   | 713   |
| 14    | 651   | 540   | 4410  | 800   | 626   | 1790  | 25500  | 731   | 573   | 492   | 483   | 929   |
| 15    | 613   | 539   | 2440  | 745   | 683   | 2370  | 23600  | 767   | 597   | 479   | 447   | 766   |
| 16    | 581   | 528   | 1500  | 719   | 741   | 2710  | 20200  | 714   | 644   | 470   | 425   | 548   |
| 17    | 561   | 522   | 1090  | 702   | 672   | 2470  | 15100  | 691   | 834   | 492   | 418   | 461   |
| 18    | 535   | 526   | 923   | 700   | 652   | 2070  | 9170   | 668   | 2150  | 581   | 405   | 428   |
| 19    | 524   | 518   | 888   | 711   | 659   | 2050  | 5780   | 664   | 3020  | 594   | 390   | 416   |
| 20    | 524   | 527   | 897   | 692   | 701   | 3380  | 4700   | 669   | 2760  | 521   | 386   | 410   |
| 21    | 521   | 534   | 937   | 658   | 793   | 4600  | 3900   | 764   | 2460  | 499   | 400   | 421   |
| 22    | 521   | 555   | 1090  | 646   | 725   | 4160  | 2780   | 1060  | 1820  | 505   | 406   | 501   |
| 23    | 517   | 547   | 1370  | 668   | 666   | 5050  | 1810   | 866   | 1090  | 488   | 390   | 564   |
| 24    | 508   | 540   | 1110  | 690   | 651   | 4820  | 1560   | 736   | 835   | 496   | 383   | 596   |
| 25    | 517   | 615   | 893   | 701   | 630   | 3680  | 3090   | 696   | 733   | 459   | 389   | 544   |
| 26    | 517   | 768   | 795   | 674   | 623   | 3020  | 3040   | 659   | 669   | 435   | 401   | 684   |
| 27    | 508   | 1090  | 743   | 661   | 676   | 5180  | 1890   | 631   | 649   | 413   | 456   | 654   |
| 28    | 504   | 856   | 716   | 719   | 956   | 7350  | 1340   | 634   | 617   | 411   | 423   | 519   |
| 29    | 493   | 668   | 701   | 876   | 982   | 5180  | 1170   | 635   | 618   | 430   | 402   | 457   |
| 30    | 507   | 595   | 682   | 1070  | ---   | 3530  | 1070   | 662   | 617   | 448   | 389   | 431   |
| 31    | 663   | ---   | 673   | 956   | ---   | 3510  | ---    | 622   | ---   | 516   | 383   | ---   |
| TOTAL | 19568 | 26401 | 32897 | 27725 | 20247 | 83497 | 415270 | 25748 | 31001 | 16274 | 14822 | 15111 |
| MEAN  | 631   | 880   | 1061  | 894   | 698   | 2693  | 13840  | 831   | 1033  | 525   | 478   | 504   |
| MAX   | 1340  | 4390  | 4410  | 2190  | 982   | 7350  | 27200  | 1800  | 3020  | 973   | 909   | 929   |
| MIN   | 436   | 518   | 558   | 646   | 623   | 583   | 1070   | 622   | 561   | 411   | 383   | 375   |
| CFSM  | .14   | .19   | .23   | .20   | .15   | .59   | 3.04   | .18   | .23   | .12   | .10   | .11   |
| IN.   | .16   | .22   | .27   | .23   | .17   | .68   | 3.39   | .21   | .25   | .13   | .12   | .12   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2000, BY WATER YEAR (WY)

|      | 1985 | 1986 | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| MEAN | 1096 | 3352 | 5726  | 10860 | 14470 | 11740 | 9716  | 5754  | 3259  | 1907 | 1269 | 846  |      |      |      |      |
| MAX  | 2885 | 6762 | 12200 | 32180 | 38420 | 24140 | 30040 | 31840 | 11380 | 7113 | 3272 | 2422 |      |      |      |      |
| (WY) | 1986 | 1994 | 1996  | 1990  | 1990  | 1987  | 1991  | 1997  | 1989  | 1992 | 1992 | 1992 |      |      |      |      |
| MIN  | 428  | 594  | 848   | 894   | 698   | 2693  | 1215  | 664   | 503   | 525  | 478  | 497  |      |      |      |      |
| (WY) | 1991 | 1991 | 1988  | 2000  | 2000  | 1986  | 1999  | 1988  | 2000  | 2000 | 2000 | 1986 |      |      |      |      |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1985 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 1394326                | 728561              |                         |
| ANNUAL MEAN              | 3820                   | 1991                | 5848                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 9752                    |
| LOWEST ANNUAL MEAN       |                        |                     | 1991                    |
| HIGHEST DAILY MEAN       | 33600                  | Feb 2               | 64500                   |
| LOWEST DAILY MEAN        | 376                    | Sep 1               | 319                     |
| ANNUAL SEVEN-DAY MINIMUM | 380                    | Sep 21              | 329                     |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 65000                   |
| INSTANTANEOUS PEAK STAGE |                        | 25.18               | 35.66                   |
| INSTANTANEOUS LOW FLOW   |                        | 371                 | 267                     |
| ANNUAL RUNOFF (CFSM)     | .84                    | .44                 | 1.28                    |
| ANNUAL RUNOFF (INCHES)   | 11.38                  | 5.95                | 17.44                   |
| 10 PERCENT EXCEEDS       | 10700                  | 3250                | 17000                   |
| 50 PERCENT EXCEEDS       | 801                    | 660                 | 1990                    |
| 90 PERCENT EXCEEDS       | 449                    | 448                 | 542                     |

## PEARL RIVER BASIN

02488000 PEARL RIVER AT ROCKPORT, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV   | DEC   | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|-------|-------|------|------|-------|-------|------|------|------|------|------|
| 1    | 6.56 | 8.10  | 5.11  | 5.35 | 5.67 | 5.59  | 9.32  | 5.98 | 5.18 | 5.24 | 5.03 | 4.66 |
| 2    | 5.59 | 10.32 | 5.14  | 5.35 | 5.54 | 5.38  | 10.63 | 5.86 | 5.15 | 5.19 | 4.96 | 4.63 |
| 3    | 5.16 | 7.91  | 5.14  | 5.57 | 5.46 | 5.30  | 18.54 | 5.80 | 5.13 | 5.12 | 5.11 | 4.63 |
| 4    | 4.99 | 6.26  | 5.13  | 7.39 | 5.39 | 5.24  | 24.21 | 5.98 | 5.10 | 5.07 | 5.53 | 4.62 |
| 5    | 4.89 | 5.65  | 5.18  | 7.81 | 5.35 | 5.20  | 25.09 | 7.26 | 5.24 | 5.03 | 5.79 | 4.59 |
| 6    | 4.84 | 5.44  | 5.23  | 6.95 | 5.32 | 5.20  | 24.83 | 6.53 | 7.29 | 4.98 | 5.29 | 4.57 |
| 7    | 4.81 | 5.33  | 5.35  | 6.17 | 5.30 | 5.18  | 24.97 | 6.01 | 6.90 | 4.95 | 5.02 | 4.57 |
| 8    | 4.84 | 5.22  | 5.21  | 5.83 | 5.29 | 5.16  | 25.12 | 5.84 | 5.82 | 4.94 | 4.91 | 4.60 |
| 9    | 5.41 | 5.16  | 5.12  | 5.70 | 5.29 | 5.15  | 25.15 | 5.73 | 5.39 | 4.94 | 4.85 | 4.74 |
| 10   | 6.32 | 5.11  | 5.10  | 5.73 | 5.28 | 5.17  | 25.03 | 5.66 | 5.27 | 5.12 | 4.85 | 4.85 |
| 11   | 6.41 | 5.08  | 5.13  | 5.94 | 5.27 | 7.10  | 24.85 | 5.60 | 5.21 | 5.94 | 4.93 | 4.93 |
| 12   | 5.81 | 5.07  | 5.30  | 5.94 | 5.26 | 11.17 | 24.74 | 5.56 | 5.14 | 5.27 | 4.85 | 4.90 |
| 13   | 5.45 | 5.07  | 9.75  | 5.75 | 5.25 | 9.02  | 24.68 | 5.50 | 5.10 | 5.01 | 5.03 | 5.34 |
| 14   | 5.30 | 5.06  | 10.34 | 5.61 | 5.25 | 7.26  | 24.33 | 5.47 | 5.13 | 4.94 | 4.88 | 5.76 |
| 15   | 5.22 | 5.05  | 8.12  | 5.50 | 5.37 | 8.04  | 23.35 | 5.54 | 5.19 | 4.91 | 4.79 | 5.44 |
| 16   | 5.15 | 5.03  | 6.82  | 5.45 | 5.49 | 8.47  | 21.49 | 5.44 | 5.29 | 4.89 | 4.74 | 4.97 |
| 17   | 5.11 | 5.02  | 6.15  | 5.41 | 5.35 | 8.17  | 18.50 | 5.39 | 5.67 | 4.94 | 4.71 | 4.77 |
| 18   | 5.05 | 5.02  | 5.85  | 5.41 | 5.31 | 7.64  | 14.42 | 5.34 | 7.73 | 5.15 | 4.68 | 4.69 |
| 19   | 5.02 | 5.01  | 5.78  | 5.43 | 5.32 | 7.62  | 11.66 | 5.33 | 8.84 | 5.18 | 4.64 | 4.65 |
| 20   | 5.02 | 5.03  | 5.80  | 5.39 | 5.41 | 9.22  | 10.64 | 5.34 | 8.52 | 5.01 | 4.63 | 4.63 |
| 21   | 5.01 | 5.04  | 5.87  | 5.32 | 5.60 | 10.54 | 9.82  | 5.54 | 8.15 | 4.96 | 4.67 | 4.66 |
| 22   | 5.01 | 5.09  | 6.15  | 5.29 | 5.46 | 10.10 | 8.55  | 6.09 | 7.28 | 4.97 | 4.68 | 4.85 |
| 23   | 5.00 | 5.07  | 6.61  | 5.34 | 5.34 | 10.98 | 7.28  | 5.74 | 6.15 | 4.92 | 4.63 | 4.99 |
| 24   | 4.98 | 5.06  | 6.18  | 5.39 | 5.30 | 10.76 | 6.90  | 5.48 | 5.68 | 4.94 | 4.61 | 5.06 |
| 25   | 5.00 | 5.22  | 5.79  | 5.41 | 5.26 | 9.58  | 8.91  | 5.40 | 5.48 | 4.85 | 4.63 | 4.94 |
| 26   | 5.00 | 5.54  | 5.60  | 5.35 | 5.24 | 8.84  | 8.86  | 5.32 | 5.34 | 4.80 | 4.66 | 5.24 |
| 27   | 4.98 | 6.15  | 5.50  | 5.32 | 5.36 | 11.06 | 7.39  | 5.26 | 5.30 | 4.74 | 4.80 | 5.18 |
| 28   | 4.97 | 5.72  | 5.44  | 5.45 | 5.90 | 13.02 | 6.58  | 5.27 | 5.23 | 4.73 | 4.71 | 4.88 |
| 29   | 4.95 | 5.34  | 5.41  | 5.76 | 5.95 | 11.09 | 6.29  | 5.27 | 5.23 | 4.77 | 4.65 | 4.72 |
| 30   | 4.98 | 5.18  | 5.37  | 6.12 | ---  | 9.42  | 6.11  | 5.33 | 5.23 | 4.82 | 4.62 | 4.65 |
| 31   | 5.32 | ---   | 5.35  | 5.91 | ---  | 9.41  | ---   | 5.24 | ---  | 4.98 | 4.60 | ---  |
| MEAN | 5.23 | 5.61  | 5.94  | 5.75 | 5.40 | 8.10  | 16.27 | 5.65 | 5.91 | 5.01 | 4.85 | 4.86 |
| MAX  | 6.56 | 10.32 | 10.34 | 7.81 | 5.95 | 13.02 | 25.15 | 7.26 | 8.84 | 5.94 | 5.79 | 5.76 |
| MIN  | 4.81 | 5.01  | 5.10  | 5.29 | 5.24 | 5.15  | 6.11  | 5.24 | 5.10 | 4.73 | 4.60 | 4.57 |

LOCATION.--Lat 31°33'13", long 90°05'16", in SW1/4 sec.23, T.7 N., R.21 W., St. Stephens Meridian, Lawrence County, Hydrologic Unit 03180003, near left bank on downstream side of pier of bridge on U.S. Highway 84, 1.0 mi east of Monticello, 2.5 mi upstream from Halls Creek, 4.1 mi upstream from Silver Creek and at mile 190.8.

PERIOD OF RECORD.--October 1938 to current year. Daily mean gage heights published since January 1972. Gage-height records collected in vicinity since 1924, are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 158.66 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to Dec. 12, 1938, nonrecording gage, Dec. 12, 1938, to Jan. 10, 1949, water-stage recorder, and Jan. 11, 1949 to Oct. 16, 1952, nonrecording gage, all at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since September 27, 1961 by Ross R. Barnett, about 111 mi upstream. Statistics shown below are for water years 1962 to current year, except instantaneous extremes, which are shown for the entire period of record. Satellite telemeter and National Weather Service telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1902 reached a stage of about 33 ft. from reports of National Weather Service, discharge, about 100,000 ft<sup>3</sup>/s, from rating curve extended above 70,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 22,000 ft<sup>3</sup>/s, and maximum (\*):

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 1     | 1540  | 1590  | 698   | 858   | 1110  | 1200  | 3940   | 1170  | 712   | 711   | 746   | 505   |
| 2     | 1140  | 3540  | 692   | 849   | 998   | 1050  | 4600   | 1110  | 689   | 710   | 682   | 509   |
| 3     | 794   | 3200  | 726   | 910   | 955   | 1010  | 13700  | 1080  | 681   | 694   | 639   | 489   |
| 4     | 643   | 1740  | 723   | 4390  | 924   | 1030  | 23300  | 1090  | 669   | 670   | 755   | 483   |
| 5     | 571   | 1110  | 723   | 3170  | 890   | 969   | 25900  | 1510  | 704   | 650   | 878   | 470   |
| 6     | 533   | 911   | 772   | 2360  | 870   | 947   | 26800  | 1720  | 987   | 636   | 876   | 452   |
| 7     | 517   | 851   | 781   | 1660  | 850   | 954   | 26800  | 1320  | 1820  | 633   | 690   | 445   |
| 8     | 532   | 798   | 780   | 1300  | 830   | 943   | 27000  | 1110  | 1290  | 631   | 611   | 453   |
| 9     | 1000  | 765   | 735   | 1150  | 827   | 944   | 27200  | 1030  | 925   | 628   | 575   | 524   |
| 10    | 1350  | 725   | 720   | 1140  | 820   | 963   | 27300  | 977   | 784   | 626   | 554   | 587   |
| 11    | 1350  | 706   | 733   | 1130  | 844   | 1430  | 27200  | 946   | 725   | 750   | 605   | 590   |
| 12    | 1150  | 706   | 771   | 1200  | 848   | 4550  | 27000  | 913   | 709   | 872   | 589   | 621   |
| 13    | 907   | 674   | 3220  | 1140  | 853   | 4860  | 26900  | 887   | 691   | 668   | 570   | 698   |
| 14    | 780   | 693   | 5180  | 1040  | 851   | 2880  | 26800  | 859   | 668   | 633   | 589   | 940   |
| 15    | 718   | 679   | 3530  | 963   | 854   | 2360  | 26000  | 850   | 728   | 629   | 560   | 996   |
| 16    | 683   | 678   | 2080  | 924   | 922   | 3170  | 24100  | 860   | 741   | 628   | 522   | 766   |
| 17    | 652   | 709   | 1440  | 906   | 944   | 3130  | 20100  | 837   | 752   | 624   | 500   | 584   |
| 18    | 631   | 670   | 1180  | 897   | 913   | 2760  | 13500  | 814   | 2080  | 628   | 500   | 518   |
| 19    | 609   | 714   | 1150  | 911   | 900   | 2860  | 7790   | 797   | 2680  | 667   | 474   | 499   |
| 20    | 597   | 656   | 1140  | 906   | 910   | 3770  | 5510   | 801   | 3040  | 649   | 464   | 490   |
| 21    | 591   | 657   | 1210  | 875   | 969   | 5120  | 4560   | 844   | 2470  | 600   | 459   | 508   |
| 22    | 581   | 710   | 1360  | 857   | 1020  | 4850  | 3580   | 941   | 2250  | 577   | 470   | 520   |
| 23    | 571   | 727   | 1410  | 876   | 970   | 5100  | 2540   | 1060  | 1480  | 596   | 480   | 579   |
| 24    | 578   | 679   | 1420  | 883   | 927   | 5590  | 1970   | 904   | 1060  | 602   | 466   | 681   |
| 25    | 583   | 665   | 1190  | 869   | 921   | 4720  | 2320   | 822   | 900   | 585   | 458   | 718   |
| 26    | 590   | 749   | 1040  | 855   | 918   | 4040  | 3310   | 774   | 909   | 552   | 463   | 685   |
| 27    | 598   | 909   | 968   | 840   | 1050  | 4930  | 2580   | 732   | 883   | 534   | 482   | 732   |
| 28    | 593   | 1080  | 933   | 913   | 1090  | 7870  | 1750   | 721   | 793   | 547   | 507   | 665   |
| 29    | 581   | 900   | 898   | 1010  | 1290  | 7160  | 1410   | 725   | 735   | 539   | 487   | 579   |
| 30    | 586   | 779   | 890   | 1160  | ---   | 4800  | 1270   | 744   | 723   | 523   | 488   | 551   |
| 31    | 765   | ---   | 846   | 1220  | ---   | 4010  | ---    | 747   | ---   | 559   | 496   | ---   |
| TOTAL | 23314 | 29970 | 39939 | 38162 | 27068 | 99970 | 436730 | 29695 | 34278 | 19551 | 17635 | 17837 |
| MEAN  | 752   | 999   | 1288  | 1231  | 933   | 3225  | 14560  | 958   | 1143  | 631   | 569   | 595   |
| MAX   | 1540  | 3540  | 5180  | 4390  | 1290  | 7870  | 27300  | 1720  | 3040  | 872   | 878   | 996   |
| MIN   | 517   | 656   | 692   | 840   | 820   | 943   | 1270   | 721   | 668   | 523   | 458   | 445   |
| CFSM  | .15   | .20   | .26   | .25   | .19   | .65   | 2.92   | .19   | .23   | .13   | .11   | .12   |
| IN.   | .17   | .22   | .30   | .28   | .20   | .74   | 3.25   | .22   | .26   | .15   | .13   | .11   |

|      |      |      |       |       |       |       |       |       |       |      |       |      |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| MEAN | 1747 | 2989 | 8351  | 12740 | 14350 | 14390 | 14800 | 8170  | 3013  | 1980 | 1755  | 1319 |
| MAX  | 9167 | 8443 | 37130 | 36890 | 43290 | 29990 | 51710 | 40240 | 13140 | 7516 | 10920 | 7323 |
| (WY) | 1976 | 1994 | 1983  | 1974  | 1990  | 1980  | 1980  | 1991  | 1997  | 1989 | 1975  | 1979 |
| MIN  | 305  | 356  | 728   | 1231  | 933   | 2950  | 1552  | 800   | 650   | 602  | 486   | 482  |
| (WY) | 1964 | 1964 | 1963  | 2000  | 2000  | 1967  | 1967  | 1963  | 1988  | 1969 | 1969  | 1963 |

|                          |         |        |        |        |        |             |
|--------------------------|---------|--------|--------|--------|--------|-------------|
| ANNUAL TOTAL             | 1575781 |        | 814149 |        |        |             |
| ANNUAL MEAN              | 4317    |        | 2224   |        | 7097   |             |
| HIGHEST ANNUAL MEAN      |         |        |        |        | 17210  | 1983        |
| LOWEST ANNUAL MEAN       |         |        |        |        | 2001   | 1963        |
| HIGHEST DAILY MEAN       | 34700   | Feb 3  | 27300  | Apr 10 | 121000 | Apr 20 1979 |
| LOWEST DAILY MEAN        | 447     | Sep 25 | 445    | Sep 7  | 269    | Oct 24 1963 |
| ANNUAL SEVEN-DAY MINIMUM | 458     | Sep 22 | 466    | Aug 20 | 274    | Oct 21 1963 |
| INSTANTANEOUS PEAK FLOW  |         |        | 27400  | Apr 10 | 122000 | Apr 20 1979 |
| INSTANTANEOUS PEAK STAGE |         |        | 21.47  | Apr 10 | 34.08  | Apr 20 1979 |
| INSTANTANEOUS LOW FLOW   |         |        | 441    | Sep 8  | 269    | Oct 24 1963 |
| ANNUAL RUNOFF (CFSM)     | .86     |        | .45    |        | 1.42   |             |
| ANNUAL RUNOFF (INCHES)   | 11.74   |        | 6.07   |        | 19.31  |             |
| 10 PERCENT EXCEEDS       | 11500   |        | 3820   |        | 20500  |             |
| 50 PERCENT EXCEEDS       | 963     |        | 852    |        | 2460   |             |
| 90 PERCENT EXCEEDS       | 571     |        | 545    |        | 666    |             |

## PEARL RIVER BASIN

02488500 PEARL RIVER NEAR MONTICELLO, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1    | 6.08 | 6.15 | 4.53 | 4.71 | 5.16 | 5.06  | 8.07  | 5.41 | 4.60 | 4.59 | 4.66 | 4.14 |
| 2    | 5.46 | 8.40 | 4.51 | 4.70 | 4.97 | 4.80  | 8.66  | 5.33 | 4.55 | 4.59 | 4.54 | 4.15 |
| 3    | 4.85 | 8.07 | 4.58 | 4.80 | 4.89 | 4.73  | 14.92 | 5.27 | 4.53 | 4.56 | 4.44 | 4.10 |
| 4    | 4.55 | 6.36 | 4.57 | 8.87 | 4.84 | 4.74  | 19.84 | 5.29 | 4.51 | 4.51 | 4.68 | 4.08 |
| 5    | 4.39 | 5.42 | 4.56 | 7.77 | 4.77 | 4.63  | 20.90 | 5.94 | 4.58 | 4.47 | 4.92 | 4.05 |
| 6    | 4.31 | 5.08 | 4.65 | 6.89 | 4.74 | 4.57  | 21.23 | 6.25 | 5.10 | 4.44 | 4.92 | 4.01 |
| 7    | 4.27 | 4.97 | 4.66 | 5.99 | 4.70 | 4.58  | 21.23 | 5.66 | 6.38 | 4.43 | 4.55 | 3.99 |
| 8    | 4.30 | 4.87 | 4.65 | 5.46 | 4.66 | 4.55  | 21.31 | 5.33 | 5.61 | 4.43 | 4.38 | 4.01 |
| 9    | 5.24 | 4.80 | 4.56 | 5.23 | 4.64 | 4.54  | 21.41 | 5.19 | 5.01 | 4.42 | 4.30 | 4.18 |
| 10   | 5.82 | 4.72 | 4.52 | 5.22 | 4.62 | 4.56  | 21.45 | 5.10 | 4.74 | 4.42 | 4.25 | 4.33 |
| 11   | 5.82 | 4.68 | 4.54 | 5.20 | 4.65 | 5.29  | 21.38 | 5.04 | 4.62 | 4.66 | 4.37 | 4.34 |
| 12   | 5.50 | 4.67 | 4.61 | 5.31 | 4.65 | 8.64  | 21.29 | 4.99 | 4.59 | 4.91 | 4.33 | 4.41 |
| 13   | 5.07 | 4.60 | 7.67 | 5.22 | 4.65 | 8.97  | 21.27 | 4.94 | 4.55 | 4.50 | 4.29 | 4.56 |
| 14   | 4.83 | 4.63 | 9.68 | 5.04 | 4.63 | 7.07  | 21.21 | 4.89 | 4.50 | 4.43 | 4.33 | 5.03 |
| 15   | 4.71 | 4.60 | 8.17 | 4.91 | 4.63 | 6.48  | 20.91 | 4.87 | 4.63 | 4.42 | 4.27 | 5.12 |
| 16   | 4.64 | 4.59 | 6.59 | 4.84 | 4.74 | 7.37  | 20.13 | 4.89 | 4.66 | 4.42 | 4.18 | 4.69 |
| 17   | 4.57 | 4.65 | 5.71 | 4.80 | 4.77 | 7.32  | 18.43 | 4.84 | 4.68 | 4.41 | 4.13 | 4.31 |
| 18   | 4.53 | 4.56 | 5.30 | 4.79 | 4.70 | 6.91  | 15.10 | 4.80 | 6.66 | 4.42 | 4.13 | 4.16 |
| 19   | 4.48 | 4.64 | 5.25 | 4.81 | 4.67 | 7.00  | 11.38 | 4.77 | 7.42 | 4.50 | 4.06 | 4.11 |
| 20   | 4.45 | 4.52 | 5.22 | 4.80 | 4.68 | 7.92  | 9.72  | 4.77 | 7.82 | 4.47 | 4.04 | 4.08 |
| 21   | 4.44 | 4.51 | 5.34 | 4.75 | 4.77 | 9.11  | 8.96  | 4.86 | 7.18 | 4.36 | 4.02 | 4.13 |
| 22   | 4.41 | 4.61 | 5.57 | 4.71 | 4.85 | 8.88  | 8.08  | 5.03 | 6.93 | 4.31 | 4.05 | 4.15 |
| 23   | 4.39 | 4.64 | 5.63 | 4.75 | 4.75 | 9.09  | 7.00  | 5.25 | 5.90 | 4.35 | 4.08 | 4.28 |
| 24   | 4.41 | 4.54 | 5.65 | 4.76 | 4.66 | 9.49  | 6.35  | 4.97 | 5.24 | 4.36 | 4.04 | 4.50 |
| 25   | 4.42 | 4.50 | 5.29 | 4.73 | 4.64 | 8.77  | 6.79  | 4.81 | 4.96 | 4.32 | 4.02 | 4.58 |
| 26   | 4.44 | 4.67 | 5.04 | 4.71 | 4.62 | 8.16  | 7.93  | 4.72 | 4.98 | 4.25 | 4.04 | 4.50 |
| 27   | 4.45 | 4.97 | 4.91 | 4.68 | 4.84 | 8.93  | 7.16  | 4.64 | 4.93 | 4.21 | 4.08 | 4.60 |
| 28   | 4.44 | 5.25 | 4.85 | 4.81 | 4.91 | 11.16 | 6.18  | 4.62 | 4.76 | 4.24 | 4.14 | 4.46 |
| 29   | 4.41 | 4.94 | 4.79 | 4.99 | 5.21 | 10.66 | 5.71  | 4.62 | 4.64 | 4.22 | 4.10 | 4.26 |
| 30   | 4.43 | 4.70 | 4.77 | 5.24 | ---  | 8.83  | 5.53  | 4.66 | 4.62 | 4.18 | 4.10 | 4.20 |
| 31   | 4.79 | ---  | 4.69 | 5.33 | ---  | 8.13  | ---   | 4.67 | ---  | 4.26 | 4.12 | ---  |
| MEAN | 4.74 | 5.08 | 5.32 | 5.25 | 4.76 | 7.13  | 14.32 | 5.05 | 5.26 | 4.42 | 4.28 | 4.32 |
| MAX  | 6.08 | 8.40 | 9.68 | 8.87 | 5.21 | 11.16 | 21.45 | 6.25 | 7.82 | 4.91 | 4.92 | 5.12 |
| MIN  | 4.27 | 4.50 | 4.51 | 4.68 | 4.62 | 4.54  | 5.53  | 4.62 | 4.50 | 4.18 | 4.02 | 3.99 |





## PEARL RIVER BASIN

02488700 WHITESAND CREEK NEAR OAK VALE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 4.01 | 4.39 | 3.93 | 4.03 | 4.06 | ---  | 4.11 | 3.98 | 3.92 | 3.96 | 3.94 | 3.92 |
| 2    | 3.98 | 4.17 | 3.93 | 4.03 | 4.06 | 4.03 | 4.13 | 3.98 | 3.92 | 3.95 | 4.01 | 3.92 |
| 3    | 3.97 | 4.02 | 3.94 | 4.04 | 4.05 | 4.02 | 4.95 | 3.98 | 3.92 | 3.95 | 3.96 | 3.90 |
| 4    | 3.98 | 3.99 | 3.94 | ---  | 4.05 | ---  | 5.89 | 3.98 | 3.94 | 3.93 | 4.11 | 3.90 |
| 5    | 3.97 | 4.03 | 3.95 | ---  | 4.05 | ---  | 4.74 | 3.99 | 4.00 | 3.93 | 4.05 | 3.89 |
| 6    | 3.95 | 4.06 | 3.96 | ---  | 4.05 | 4.02 | 4.30 | 4.03 | 4.01 | 3.92 | 3.94 | 3.89 |
| 7    | 3.96 | 4.06 | 3.93 | ---  | 4.04 | 4.02 | 4.17 | 3.99 | 3.98 | 3.92 | 3.92 | 3.89 |
| 8    | 4.02 | 4.06 | 3.93 | ---  | 4.04 | 4.02 | 4.09 | 3.98 | 3.96 | 3.91 | 3.91 | 3.93 |
| 9    | 4.83 | 4.06 | 3.95 | ---  | 4.04 | 4.02 | 4.06 | 3.98 | 3.96 | 3.91 | 3.92 | 3.98 |
| 10   | 5.34 | 4.05 | 3.98 | ---  | 4.04 | 4.02 | 4.05 | 3.97 | 3.96 | 3.90 | 3.92 | 3.97 |
| 11   | 4.57 | 4.06 | 3.97 | ---  | 4.04 | ---  | 4.04 | 3.96 | 4.00 | 3.91 | 4.03 | 3.95 |
| 12   | 4.17 | 4.05 | 3.96 | ---  | 4.04 | ---  | 4.08 | 3.96 | 3.97 | 3.89 | 3.98 | 3.96 |
| 13   | 4.04 | 4.04 | 4.05 | ---  | 4.03 | ---  | 5.60 | 3.96 | 3.95 | 3.89 | 3.91 | 3.97 |
| 14   | 4.00 | 4.04 | 4.09 | 4.09 | 4.03 | 4.06 | 4.78 | 3.95 | 3.96 | 3.88 | 3.90 | 3.95 |
| 15   | 3.97 | 4.03 | 4.08 | 4.08 | 4.03 | 4.09 | 4.32 | 3.94 | 3.99 | 3.88 | 3.90 | 3.94 |
| 16   | 3.97 | 3.98 | 4.06 | 4.08 | 4.03 | 4.14 | 4.18 | 3.95 | 4.02 | 3.87 | 3.90 | 3.92 |
| 17   | 3.96 | 3.95 | 4.04 | 4.09 | 4.03 | 4.15 | 4.13 | 3.95 | 4.02 | 3.91 | 3.91 | 3.90 |
| 18   | 3.95 | 3.95 | ---  | 4.08 | 4.03 | 4.17 | 4.09 | 3.95 | 4.02 | 3.97 | 3.90 | 3.90 |
| 19   | 3.94 | 3.95 | ---  | 4.08 | 4.03 | 4.76 | 4.07 | 3.95 | 4.01 | 3.99 | 3.89 | 3.90 |
| 20   | 3.93 | 3.96 | ---  | 4.08 | 4.02 | 4.76 | 4.06 | 3.95 | 4.10 | 3.92 | 3.94 | 3.91 |
| 21   | 3.92 | 3.98 | ---  | 4.08 | 4.02 | 4.35 | 4.03 | 3.96 | 4.02 | 3.90 | 3.93 | 3.92 |
| 22   | 3.92 | 3.97 | ---  | 4.08 | 4.02 | 4.20 | 4.01 | 3.96 | 3.98 | 3.91 | 3.91 | 3.92 |
| 23   | 3.92 | 3.96 | ---  | ---  | 4.02 | 4.14 | 4.01 | 3.95 | 3.98 | 3.91 | 3.91 | 3.92 |
| 24   | 3.91 | 3.97 | ---  | ---  | 4.02 | 4.13 | 4.07 | 3.95 | 3.97 | 3.91 | 3.91 | 3.92 |
| 25   | 3.91 | 3.95 | ---  | ---  | 4.03 | 4.12 | 4.13 | 3.94 | 3.98 | 3.89 | 3.90 | 4.01 |
| 26   | 3.92 | 3.95 | 4.03 | 4.07 | 4.03 | 4.20 | 4.03 | 3.94 | 4.01 | 3.92 | 3.90 | 3.97 |
| 27   | 3.92 | 3.94 | 4.03 | 4.07 | ---  | 4.45 | 4.00 | 3.94 | 4.02 | 3.94 | 3.90 | 3.93 |
| 28   | 3.92 | 3.94 | 4.03 | 4.06 | ---  | 4.41 | 4.00 | 3.92 | 4.01 | 3.98 | 3.90 | 3.92 |
| 29   | 3.92 | 3.94 | 4.03 | ---  | ---  | 4.23 | 4.00 | 3.92 | 3.98 | 3.93 | 3.90 | 3.91 |
| 30   | 3.95 | 3.94 | 4.03 | ---  | ---  | 4.20 | 3.99 | 3.93 | 3.97 | 3.92 | 3.89 | 3.91 |
| 31   | 4.15 | ---  | 4.03 | ---  | ---  | 4.16 | ---  | 3.92 | ---  | 3.92 | 3.90 | ---  |
| MEAN | 4.06 | 4.01 | ---  | ---  | ---  | ---  | 4.27 | 3.96 | 3.98 | 3.92 | 3.93 | 3.93 |
| MAX  | 5.34 | 4.39 | ---  | ---  | ---  | ---  | 5.89 | 4.03 | 4.10 | 3.99 | 4.11 | 4.01 |
| MIN  | 3.91 | 3.94 | ---  | ---  | ---  | ---  | 3.99 | 3.92 | 3.92 | 3.87 | 3.89 | 3.89 |

## 02489000 PEARL RIVER NEAR COLUMBIA, MS

LOCATION.--Lat 31°28'14", long 89°58'25", in NE1/4 NW1/4 sec.7, T.3 N., R.18 W., St. Stephens Meridian, Marion County, Hydrologic Unit 03180004, on downstream side of bridge on U.S. Highway 98, 1.5 mi southwest of Columbia, 2.0 mi downstream from Fernwood, Columbia and Gulf Railroad bridge, 2.2 mi upstream from Silver Creek and at mile 137.8.

DRAINAGE AREA.--5,720 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1928 to September 1954 (monthly discharge only for January to August 1930, published in WSP 1304) October 1998 to September 1999 (high-water records only) and October 1999 to current year. January 1972 to 1999 (gage heights only). Gage-height records collected at same site November 1904 to December 1971 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 115.81 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to August 1928, nonrecording gages at various sites and datums in the vicinity maintained by National Weather Service. August 1928 to May 26, 1934, nonrecording gage at site 1.0 mi downstream at datum 0.37 ft higher. May 26, 1934 to September 1954, water-stage recorder at present site and datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1874 reached a stage of about 31 ft, from information by National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 2370  | 1750  | 1230  | 1310  | 1730  | 1560   | 4460   | 1980  | 998   | 1060  | 1000  | 927   |
| 2     | 2190  | 2510  | 1140  | 1290  | 1640  | 1530   | 4360   | 1820  | 981   | 1050  | 1080  | 911   |
| 3     | 1810  | 4370  | 1110  | 1310  | 1510  | 1370   | 6270   | 1720  | 955   | 1020  | 1080  | 914   |
| 4     | 1420  | 4020  | 1140  | 1750  | 1440  | 1270   | 15800  | 1660  | 941   | 1020  | 1020  | 899   |
| 5     | 1190  | 2650  | 1170  | 5590  | 1380  | 1270   | 21500  | 1640  | 953   | 988   | 1070  | 879   |
| 6     | 1080  | 1910  | 1140  | 4260  | 1340  | 1220   | 24400  | 2000  | 991   | 979   | 1210  | 871   |
| 7     | 1030  | 1590  | 1170  | 3160  | 1320  | 1180   | 25700  | 2300  | 1140  | 957   | 1270  | 866   |
| 8     | 1050  | 1470  | 1180  | 2420  | 1320  | 1180   | 26100  | 1900  | 1950  | 953   | 1140  | 875   |
| 9     | 1640  | 1390  | 1180  | 2090  | 1290  | 1160   | 26400  | 1620  | 1650  | 925   | 1010  | 920   |
| 10    | 2890  | 1330  | 1170  | 2360  | 1280  | 1170   | 26800  | 1500  | 1250  | 944   | 973   | 975   |
| 11    | 3010  | 1290  | 1130  | 2360  | 1260  | 1310   | 27100  | 1420  | 1060  | 915   | 1050  | 1010  |
| 12    | 2310  | 1230  | 1160  | 1940  | 1280  | 1830   | 27300  | 1370  | 984   | 991   | 1030  | 1070  |
| 13    | 1960  | 1240  | 1260  | 1850  | 1280  | 4840   | 28100  | 1320  | 956   | 1180  | 1010  | 1100  |
| 14    | 1620  | 1190  | 3860  | 1750  | 1270  | 4900   | 27900  | 1270  | 944   | 1040  | 961   | 1130  |
| 15    | 1410  | 1180  | 5810  | 1610  | 1250  | 3250   | 27100  | 1220  | 922   | 952   | 973   | 1360  |
| 16    | 1300  | 1170  | 4200  | 1520  | 1240  | 2800   | 26200  | 1210  | 976   | 935   | 975   | 1380  |
| 17    | 1240  | 1140  | 2820  | 1460  | 1270  | 3460   | 24400  | 1210  | 1030  | 941   | 941   | 1220  |
| 18    | 1190  | 1170  | 2250  | 1420  | 1330  | 3450   | 20800  | 1180  | 1050  | 959   | 906   | 1040  |
| 19    | 1150  | 1140  | 2040  | 1410  | 1300  | 3360   | 14600  | 1160  | 2150  | 970   | 901   | 954   |
| 20    | 1120  | 1170  | 1860  | 1380  | 1260  | 3880   | 9330   | 1150  | 3190  | 1000  | 882   | 916   |
| 21    | 1100  | 1140  | 1900  | 1360  | 1240  | 4550   | 7090   | 1180  | 3480  | 1030  | 883   | 896   |
| 22    | 1090  | 1120  | 1940  | 1340  | 1270  | 5500   | 5970   | 1190  | 2990  | 1000  | 875   | 912   |
| 23    | 1080  | 1140  | 1990  | 1420  | 1330  | 5190   | 4890   | 1230  | 2720  | 971   | 875   | 921   |
| 24    | 1060  | 1180  | 1970  | 1480  | 1310  | 5510   | 3970   | 1360  | 2000  | 954   | 919   | 955   |
| 25    | 1060  | 1150  | 1960  | 1430  | 1250  | 5780   | 3230   | 1240  | 1490  | 959   | 879   | 1040  |
| 26    | 1060  | 1120  | 1740  | 1350  | 1250  | 4980   | 3460   | 1140  | 1370  | 946   | 869   | 1100  |
| 27    | 1070  | 1150  | 1560  | 1320  | 1360  | 4590   | 4250   | 1080  | 1420  | 939   | 871   | 1060  |
| 28    | 1080  | 1280  | 1450  | 1340  | 1500  | 5860   | 3540   | 1040  | 1430  | 930   | 882   | 1060  |
| 29    | 1070  | 1500  | 1380  | 1430  | 1490  | 8180   | 2710   | 1010  | 1220  | 934   | 911   | 1030  |
| 30    | 1090  | 1390  | 1340  | 1540  | ---   | 7210   | 2230   | 999   | 1110  | 916   | 901   | 961   |
| 31    | 1290  | ---   | 1320  | 1640  | ---   | 5210   | ---    | 999   | ---   | 898   | 903   | ---   |
| TOTAL | 45030 | 47080 | 56570 | 57890 | 38990 | 108550 | 455960 | 43118 | 44301 | 30256 | 30250 | 30152 |
| MEAN  | 1453  | 1569  | 1825  | 1867  | 1344  | 3502   | 15200  | 1391  | 1477  | 976   | 976   | 1005  |
| MAX   | 3010  | 4370  | 5810  | 5590  | 1730  | 8180   | 28100  | 2300  | 3480  | 1180  | 1270  | 1380  |
| MIN   | 1030  | 1120  | 1110  | 1290  | 1240  | 1160   | 2230   | 999   | 922   | 898   | 869   | 866   |
| MED   | 1190  | 1240  | 1380  | 1480  | 1300  | 3450   | 15200  | 1240  | 1120  | 959   | 961   | 958   |
| CFSM  | .25   | .27   | .32   | .33   | .24   | .61    | 2.66   | .24   | .26   | .17   | .17   | .18   |
| IN.   | .29   | .31   | .37   | .38   | .25   | .71    | 2.97   | .28   | .29   | .20   | .20   | .20   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2000, BY WATER YEAR (WY)

|      | 1453 | 1569 | 1825 | 1867 | 1344 | 3502 | 15200 | 1391 | 1477 | 976  | 976  | 1005 |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| MEAN | 1453 | 1569 | 1825 | 1867 | 1344 | 3502 | 15200 | 1391 | 1477 | 976  | 976  | 1005 |
| MAX  | 1453 | 1569 | 1825 | 1867 | 1344 | 3502 | 15200 | 1391 | 1477 | 976  | 976  | 1005 |
| (WY) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000  | 2000 | 2000 | 2000 | 2000 | 2000 |
| MIN  | 1453 | 1569 | 1825 | 1867 | 1344 | 3502 | 15200 | 1391 | 1477 | 976  | 976  | 1005 |
| (WY) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000  | 2000 | 2000 | 2000 | 2000 | 2000 |

## SUMMARY STATISTICS

## FOR 2000 WATER YEAR

|                          |        |
|--------------------------|--------|
| ANNUAL TOTAL             | 988147 |
| ANNUAL MEAN              | 2700   |
| HIGHEST DAILY MEAN       | 28100  |
| LOWEST DAILY MEAN        | 866    |
| ANNUAL SEVEN-DAY MINIMUM | 881    |
| INSTANTANEOUS PEAK FLOW  | 28300  |
| INSTANTANEOUS PEAK STAGE | 14.82  |
| INSTANTANEOUS LOW FLOW   | 858    |
| ANNUAL RUNOFF (CFSM)     | .47    |
| ANNUAL RUNOFF (INCHES)   | 6.43   |
| 10 PERCENT EXCEEDS       | 4490   |
| 50 PERCENT EXCEEDS       | 1270   |
| 90 PERCENT EXCEEDS       | 940    |

## PEARL RIVER BASIN

02489000 PEARL RIVER NEAR COLUMBIA, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL | AUG | SEP  |
|------|------|------|------|------|------|------|-------|------|------|-----|-----|------|
| 1    | 1.85 | 1.33 | .86  | .93  | 1.31 | 1.16 | 3.42  | 1.75 | .89  | .90 | .73 | .59  |
| 2    | 1.70 | 1.96 | .78  | .92  | 1.23 | 1.13 | 3.36  | 1.64 | .87  | .88 | .80 | .57  |
| 3    | 1.38 | 3.35 | .75  | .94  | 1.12 | .99  | 4.63  | 1.55 | .85  | .85 | .80 | .58  |
| 4    | 1.03 | 3.11 | .78  | 1.32 | 1.06 | .90  | 10.11 | 1.50 | .83  | .84 | .75 | .56  |
| 5    | .82  | 2.07 | .80  | 4.21 | 1.00 | .90  | 12.50 | 1.48 | .85  | .81 | .79 | .54  |
| 6    | .72  | 1.46 | .78  | 3.28 | .97  | .85  | 13.39 | 1.79 | .88  | .79 | .91 | .52  |
| 7    | .67  | 1.19 | .81  | 2.47 | .94  | .81  | 13.83 | 2.04 | 1.02 | .77 | .96 | .52  |
| 8    | .69  | 1.08 | .81  | 1.88 | .94  | .81  | 14.00 | 1.70 | 1.75 | .76 | .84 | .53  |
| 9    | 1.23 | 1.01 | .82  | 1.62 | .91  | .80  | 14.11 | 1.47 | 1.49 | .73 | .72 | .57  |
| 10   | 2.26 | .95  | .81  | 1.84 | .90  | .80  | 14.25 | 1.36 | 1.12 | .74 | .69 | .62  |
| 11   | 2.36 | .92  | .77  | 1.84 | .89  | .93  | 14.36 | 1.29 | .95  | .71 | .76 | .65  |
| 12   | 1.80 | .86  | .79  | 1.49 | .90  | 1.39 | 14.45 | 1.24 | .88  | .77 | .73 | .71  |
| 13   | 1.51 | .87  | .89  | 1.42 | .90  | 3.68 | 14.75 | 1.19 | .85  | .95 | .71 | .74  |
| 14   | 1.22 | .82  | 2.93 | 1.33 | .90  | 3.73 | 14.70 | 1.14 | .84  | .82 | .66 | .77  |
| 15   | 1.03 | .82  | 4.36 | 1.21 | .88  | 2.54 | 14.53 | 1.11 | .81  | .72 | .68 | .98  |
| 16   | .92  | .80  | 3.23 | 1.13 | .87  | 2.19 | 14.32 | 1.09 | .87  | .70 | .67 | 1.01 |
| 17   | .87  | .78  | 2.21 | 1.07 | .90  | 2.69 | 13.76 | 1.09 | .92  | .70 | .63 | .86  |
| 18   | .82  | .80  | 1.75 | 1.04 | .95  | 2.69 | 12.42 | 1.07 | .94  | .72 | .60 | .69  |
| 19   | .79  | .77  | 1.58 | 1.02 | .92  | 2.62 | 9.60  | 1.04 | 1.91 | .72 | .59 | .61  |
| 20   | .76  | .80  | 1.42 | 1.00 | .89  | 3.01 | 6.62  | 1.03 | 2.74 | .75 | .57 | .58  |
| 21   | .74  | .77  | 1.45 | .98  | .87  | 3.49 | 5.23  | 1.06 | 2.96 | .78 | .57 | .56  |
| 22   | .72  | .76  | 1.49 | .96  | .90  | 4.15 | 4.51  | 1.07 | 2.58 | .74 | .56 | .57  |
| 23   | .72  | .78  | 1.53 | 1.04 | .95  | 3.94 | 3.80  | 1.11 | 2.36 | .71 | .56 | .58  |
| 24   | .70  | .81  | 1.51 | 1.09 | .93  | 4.16 | 3.16  | 1.23 | 1.77 | .70 | .60 | .62  |
| 25   | .70  | .79  | 1.51 | 1.04 | .88  | 4.34 | 2.63  | 1.12 | 1.33 | .70 | .56 | .71  |
| 26   | .70  | .76  | 1.32 | .97  | .88  | 3.79 | 2.83  | 1.02 | 1.21 | .69 | .55 | .77  |
| 27   | .71  | .79  | 1.16 | .94  | .98  | 3.52 | 3.42  | .97  | 1.25 | .67 | .54 | .73  |
| 28   | .72  | .91  | 1.06 | .96  | 1.11 | 4.38 | 2.92  | .93  | 1.25 | .66 | .55 | .73  |
| 29   | .71  | 1.11 | 1.00 | 1.05 | 1.10 | 5.89 | 2.31  | .90  | 1.06 | .67 | .58 | .71  |
| 30   | .72  | 1.01 | .97  | 1.14 | ---  | 5.28 | 1.95  | .89  | .95  | .65 | .57 | .64  |
| 31   | .92  | ---  | .94  | 1.23 | ---  | 3.95 | ---   | .89  | ---  | .63 | .57 | ---  |
| MEAN | 1.05 | 1.14 | 1.35 | 1.40 | .96  | 2.63 | 8.86  | 1.25 | 1.30 | .75 | .67 | .66  |
| MAX  | 2.36 | 3.35 | 4.36 | 4.21 | 1.31 | 5.89 | 14.75 | 2.04 | 2.96 | .95 | .96 | 1.01 |
| MIN  | .67  | .76  | .75  | .92  | .87  | .80  | 1.95  | .89  | .81  | .63 | .54 | .52  |
| MED  | .82  | .87  | 1.00 | 1.09 | .92  | 2.69 | 9.85  | 1.12 | .99  | .73 | .66 | .62  |

## PEARL RIVER BASIN

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02489500 PEARL RIVER NEAR BOGALUSA, LA

LOCATION.--Lat 30°47'35", long 89°49'15", on line between secs. 17 and 18, T. 3 S., R. 14 E., Washington Parish, Hydrologic Unit 03180004, near left bank on downstream side of flow control structure upstream of bridge on State Highway 10, 2.0 mi east of Bogalusa, and 2.0 mi upstream from Bogue Lusa Creek.

DRAINAGE AREA.--6,573 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WRD LA-1981-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 54.64 ft above NAVD 88. Prior to Oct. 1, 1999, datum of gage 55.00 ft above sea level (NGVD 1929). Prior to July 29, 1954, nonrecording gage at same site and datum.

REMARKS.--Records good. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 11, 1938, reached a stage of 21.0 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 1780  | 2310  | 2100  | 2230  | 2430  | 2320   | 5400   | 3450  | 1670  | 2030  | 1380  | 1210  |
| 2     | 2370  | 2590  | 2000  | 2200  | 2500  | 2290   | 4650   | 3210  | 1660  | 1900  | 1440  | 1250  |
| 3     | 2620  | 2870  | 1930  | 2180  | 2460  | 2290   | 4490   | 3050  | 1630  | 1830  | 1560  | 1220  |
| 4     | 2450  | 3730  | 1890  | e3000 | 2350  | 2190   | 5960   | 2940  | 1600  | 1770  | 1620  | 1210  |
| 5     | 2180  | 4060  | 1900  | e4000 | 2260  | 2100   | 14000  | 2850  | 1620  | 1730  | 1560  | 1190  |
| 6     | 1940  | 3380  | 1910  | 5190  | 2210  | 2060   | 20400  | 2790  | 1640  | 1690  | 1520  | 1180  |
| 7     | 1800  | 2800  | 1890  | 4820  | 2160  | 2020   | 24200  | 2970  | 1640  | 1650  | 1620  | 1140  |
| 8     | 1750  | 2450  | 1880  | 3980  | 2140  | 1970   | 27700  | 3170  | 1660  | 1610  | 1690  | 1170  |
| 9     | 3330  | 2270  | 1900  | 3430  | 2140  | 1960   | 29700  | 2940  | 2120  | 1580  | 1700  | 1230  |
| 10    | 4770  | 2180  | 1910  | 3230  | 2120  | 1950   | 31100  | 2700  | 2260  | 1540  | 1590  | 1280  |
| 11    | 4480  | 2110  | 1910  | 3840  | 2090  | 1990   | 31600  | 2550  | 1960  | 1530  | 1600  | 1320  |
| 12    | 4070  | 2050  | 1910  | 3680  | 2060  | 2250   | 32200  | 2430  | 1740  | 1490  | 1630  | 1320  |
| 13    | 3310  | 1990  | 2190  | 3140  | 2050  | 2640   | 33300  | 2330  | 1630  | 1490  | 1590  | 1380  |
| 14    | 2880  | 1970  | 2710  | 2870  | 2050  | 3960   | 34300  | 2250  | 1560  | 1660  | 1490  | 1620  |
| 15    | 2560  | 1940  | 3530  | 2730  | 2040  | 4640   | 34600  | 2160  | 1550  | 1650  | 1410  | 1640  |
| 16    | 2300  | 1920  | 4940  | 2600  | 2020  | 3930   | 34400  | 2080  | 1550  | 1520  | 1390  | 1640  |
| 17    | 2140  | 1910  | 4460  | 2490  | 2000  | 3460   | 33900  | 2040  | 1630  | 1450  | 1360  | 1670  |
| 18    | 2030  | 1880  | 3710  | 2410  | 2010  | 3670   | 32800  | 2010  | 1750  | 1440  | 1320  | 1610  |
| 19    | 1960  | 1890  | 3800  | 2350  | 2040  | 3890   | 30500  | 1970  | 1790  | 1530  | 1280  | 1430  |
| 20    | 1900  | 1890  | 3820  | 2290  | 2020  | 4120   | 23100  | 1940  | 2190  | 1520  | 1250  | 1300  |
| 21    | 1860  | 1890  | 3750  | 2240  | 1980  | 4430   | 13200  | 1930  | 3110  | 1530  | 1250  | 1240  |
| 22    | 1840  | 1900  | 3890  | 2220  | 1970  | 4610   | 8070   | 1990  | 3500  | 1590  | 1230  | 1220  |
| 23    | 1810  | 1880  | 3490  | 2250  | 1980  | 5020   | 6410   | 1950  | 3400  | 1620  | 1220  | 1210  |
| 24    | 1780  | 1870  | 3120  | 2330  | 2020  | 5020   | 5640   | 2040  | 3180  | 1570  | 1230  | 1220  |
| 25    | 1760  | 1890  | 2940  | 2440  | 2040  | 5070   | 5160   | 2110  | 2850  | 1490  | 1230  | 1230  |
| 26    | 1750  | 1900  | 2860  | 2380  | 2010  | 5290   | 4660   | 2060  | 2660  | 1460  | 1220  | 1270  |
| 27    | 1760  | 1880  | 2730  | 2260  | 2070  | 5050   | 4400   | 1950  | 2670  | 1430  | 1190  | 1340  |
| 28    | 1770  | 1880  | 2550  | 2240  | 2270  | 4830   | 4740   | 1870  | 2630  | 1420  | 1180  | 1330  |
| 29    | 1770  | 1940  | 2420  | 2290  | 2380  | 5380   | 4450   | 1810  | 2500  | 1410  | 1190  | 1320  |
| 30    | 1790  | 2070  | 2330  | 2370  | ---   | 6880   | 3870   | 1740  | 2240  | 1420  | 1190  | 1320  |
| 31    | 1930  | ---   | 2280  | 2420  | ---   | 6750   | ---    | 1700  | ---   | 1400  | 1200  | ---   |
| TOTAL | 72440 | 67290 | 84650 | 88100 | 61870 | 114030 | 548900 | 72980 | 63590 | 48950 | 43330 | 39710 |
| MEAN  | 2337  | 2243  | 2731  | 2842  | 2133  | 3678   | 18300  | 2354  | 2120  | 1579  | 1398  | 1324  |
| MAX   | 4770  | 4060  | 4940  | 5190  | 2500  | 6880   | 34600  | 3450  | 3500  | 2030  | 1700  | 1670  |
| MIN   | 1750  | 1870  | 1880  | 2180  | 1970  | 1950   | 3870   | 1700  | 1550  | 1400  | 1180  | 1140  |
| CFSM  | .36   | .34   | .42   | .43   | .32   | .56    | 2.78   | .36   | .32   | .24   | .21   | .20   |
| IN.   | .41   | .38   | .48   | .50   | .35   | .65    | 3.11   | .41   | .36   | .28   | .25   | .22   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

|      |       |       |       |       |       |       |       |       |       |       |       |      |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| MEAN | 2919  | 4221  | 9795  | 15470 | 19640 | 20470 | 19260 | 12170 | 5586  | 4537  | 3716  | 2861 |
| MAX  | 10390 | 16150 | 40080 | 48900 | 56830 | 46670 | 67290 | 56770 | 22540 | 26570 | 16710 | 9543 |
| (WY) | 1976  | 1958  | 1983  | 1974  | 1990  | 1987  | 1980  | 1991  | 1983  | 1940  | 1975  | 1979 |
| MIN  | 1110  | 1233  | 1713  | 2174  | 2133  | 3678  | 3214  | 1926  | 1651  | 1564  | 1398  | 1246 |
| (WY) | 1964  | 1964  | 1955  | 1956  | 2000  | 2000  | 1963  | 1963  | 1963  | 1969  | 2000  | 1954 |

|                          |         |         |       |
|--------------------------|---------|---------|-------|
| ANNUAL TOTAL             | 2400810 | 1305840 |       |
| ANNUAL MEAN              | 6578    | 3568    |       |
| HIGHEST ANNUAL MEAN      |         |         | 22560 |
| LOWEST ANNUAL MEAN       |         |         | 3412  |
| HIGHEST DAILY MEAN       | 41500   | Mar 17  | 34600 |
| LOWEST DAILY MEAN        | 1500    | Sep 24  | 1140  |
| ANNUAL SEVEN-DAY MINIMUM | 1510    | Sep 22  | 1190  |
| INSTANTANEOUS PEAK FLOW  |         |         | 37400 |
| INSTANTANEOUS PEAK STAGE |         |         | 20.32 |
| INSTANTANEOUS LOW FLOW   |         |         | 1130  |
| INSTANTANEOUS LOW STAGE  |         |         | 6.17  |
| ANNUAL RUNOFF (CFSM)     | 1.00    |         | .54   |
| ANNUAL RUNOFF (INCHES)   | 13.59   |         | 7.39  |
| 10 PERCENT EXCEEDS       | 13800   |         | 4750  |
| 50 PERCENT EXCEEDS       | 2630    |         | 2040  |
| 90 PERCENT EXCEEDS       | 1760    |         | 1340  |

e Estimated



02490500 BOGUE CHITTO NEAR TYLERTOWN, MS

LOCATION.--Lat 31°10'36", long 90°16'46", in NW1/4 SE1/4 sec.34, T.3 N., R.9 E., Washington Meridian, Pike County, Hydrologic Unit 03180005, near right bank on downstream side of bridge on U.S. Highway 98, 0.2 mi upstream from Bars Branch, 2.2 mi downstream from Topisaw Creek, and 9.2 mi northwest of Tylertown.

DRAINAGE AREA.--492 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1944 to current year.

REVISED RECORDS.--WSP 1504: 1945(P), 1946(M), 1947-51, 1953. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 227.40 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1936 reached a stage about 0.1 ft higher than the flood of Apr. 7, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 4 | 1500 | *2,700                            | *10.13              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN   | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|-------|------|------|-------|------|------|------|------|------|
| 1     | 291  | 235  | 225  | 258   | 287  | 260  | 337   | 221  | 181  | 191  | 174  | 151  |
| 2     | 288  | 228  | 225  | 258   | 277  | 247  | 310   | 219  | 179  | 185  | 176  | 149  |
| 3     | 236  | 227  | 227  | 269   | 272  | 242  | 664   | 221  | 177  | 180  | 253  | 149  |
| 4     | 218  | 216  | 229  | 492   | 270  | 237  | 2520  | 248  | 178  | 175  | 191  | 147  |
| 5     | 208  | 212  | 236  | 1430  | 268  | 234  | 2460  | 346  | 209  | 172  | 177  | 145  |
| 6     | 201  | 212  | 239  | 1370  | 276  | 231  | 1610  | 402  | 226  | 170  | 179  | 141  |
| 7     | 198  | 213  | 236  | 544   | 269  | 230  | 602   | 272  | 256  | 169  | 174  | 142  |
| 8     | 215  | 214  | 237  | 403   | 263  | 229  | 436   | 243  | 208  | 168  | 166  | 147  |
| 9     | 543  | 215  | 236  | 382   | 260  | 230  | 368   | 229  | 196  | 166  | 170  | 172  |
| 10    | 926  | 214  | 236  | 419   | 258  | 231  | 329   | 222  | 189  | 166  | 163  | 187  |
| 11    | 487  | 214  | 236  | 391   | 258  | 261  | 305   | 217  | 186  | 166  | 200  | 188  |
| 12    | 342  | 214  | 245  | 360   | 257  | 304  | 294   | 213  | 183  | 173  | 196  | 193  |
| 13    | 280  | 214  | 304  | 340   | 252  | 357  | 289   | 211  | 182  | 165  | 170  | 188  |
| 14    | 251  | 215  | 531  | 325   | 251  | 307  | 405   | 208  | 185  | 161  | 170  | 282  |
| 15    | 237  | 215  | 629  | 316   | 248  | 280  | 387   | 208  | 185  | 159  | 162  | 308  |
| 16    | 230  | 214  | 371  | 311   | 247  | 278  | 336   | 206  | 187  | 157  | 158  | 220  |
| 17    | 224  | 213  | 288  | 307   | 246  | 276  | 305   | 204  | 192  | 164  | 156  | 186  |
| 18    | 220  | 213  | 308  | 304   | 248  | 285  | 283   | 203  | 270  | 162  | 155  | 172  |
| 19    | 217  | 216  | 357  | 304   | 245  | 303  | 268   | 201  | 301  | 161  | 153  | 165  |
| 20    | 216  | 218  | 384  | 302   | 242  | 318  | 255   | 201  | 253  | 210  | 153  | 163  |
| 21    | 214  | 219  | 422  | 297   | 239  | 386  | 248   | 203  | 220  | 252  | 151  | 163  |
| 22    | 213  | 221  | 393  | 287   | 240  | 357  | 241   | 204  | 215  | 200  | 150  | 162  |
| 23    | 212  | 223  | 388  | 287   | 237  | 309  | 238   | 202  | 214  | 189  | 151  | 168  |
| 24    | 209  | 224  | 345  | 303   | 236  | 285  | 257   | 199  | 200  | 214  | 151  | 187  |
| 25    | 209  | 227  | 306  | 295   | 236  | 273  | 261   | 196  | 191  | 184  | 152  | 437  |
| 26    | 209  | 231  | 286  | 281   | 238  | 272  | 251   | 191  | 212  | 172  | 159  | 392  |
| 27    | 209  | 230  | 275  | 273   | 275  | 320  | 238   | 190  | 271  | 163  | 167  | 302  |
| 28    | 210  | 231  | 268  | 279   | 284  | 482  | 231   | 189  | 248  | 168  | 158  | 221  |
| 29    | 209  | 229  | 263  | 287   | 284  | 504  | 226   | 186  | 217  | 162  | 154  | 191  |
| 30    | 211  | 226  | 260  | 309   | ---  | 390  | 221   | 185  | 203  | 158  | 152  | 179  |
| 31    | 229  | ---  | 258  | 299   | ---  | 365  | ---   | 186  | ---  | 168  | 152  | ---  |
| TOTAL | 8362 | 6593 | 9443 | 12282 | 7463 | 9283 | 15175 | 6826 | 6314 | 5450 | 5193 | 5997 |
| MEAN  | 270  | 220  | 305  | 396   | 257  | 299  | 506   | 220  | 210  | 176  | 168  | 200  |
| MAX   | 926  | 235  | 629  | 1430  | 287  | 504  | 2520  | 402  | 301  | 252  | 253  | 437  |
| MIN   | 198  | 212  | 225  | 258   | 236  | 229  | 221   | 185  | 177  | 157  | 150  | 141  |
| CFSM  | .55  | .45  | .62  | .81   | .52  | .61  | 1.03  | .45  | .43  | .36  | .34  | .41  |
| IN.   | .63  | .50  | .71  | .93   | .56  | .70  | 1.15  | .52  | .48  | .41  | .39  | .45  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

|      | MEAN | 384  | 500  | 867  | 1278 | 1413 | 1361 | 1300 | 850  | 526  | 457  | 404  | 372 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 1894 | 2118 | 2976 | 4728 | 3994 | 3625 | 4718 | 4317 | 1744 | 1503 | 1402 | 1131 |     |
| (WY) | 1965 | 1958 | 1972 | 1990 | 1966 | 1973 | 1983 | 1953 | 1975 | 1946 | 1953 | 1971 |     |
| MIN  | 184  | 212  | 305  | 279  | 257  | 299  | 303  | 220  | 210  | 176  | 168  | 200  |     |
| (WY) | 1964 | 1957 | 2000 | 1956 | 2000 | 2000 | 1963 | 2000 | 2000 | 2000 | 2000 | 2000 |     |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1944 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 190845                 | 98381               |                         |
| ANNUAL MEAN              | 523                    | 269                 | 806                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 1301                    |
| LOWEST ANNUAL MEAN       |                        |                     | 269                     |
| HIGHEST DAILY MEAN       | 14300                  | Mar 14              | 2520                    |
| LOWEST DAILY MEAN        | 198                    | Oct 7               | 141                     |
| ANNUAL SEVEN-DAY MINIMUM | 206                    | Sep 22              | 146                     |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 2700                    |
| INSTANTANEOUS PEAK STAGE |                        |                     | 10.13                   |
| ANNUAL RUNOFF (CFSM)     | 1.06                   |                     | .55                     |
| ANNUAL RUNOFF (INCHES)   | 14.43                  |                     | 7.44                    |
| 10 PERCENT EXCEEDS       | 587                    |                     | 358                     |
| 50 PERCENT EXCEEDS       | 270                    |                     | 228                     |
| 90 PERCENT EXCEEDS       | 214                    |                     | 164                     |

## PEARL RIVER BASIN

121

02492343 EAST HOBOLOCHITTO CREEK NEAR CAESAR, MS

LOCATION.--Lat 30°34'17", long 89°35'41", in sec.34, T.5 S., R.16 W., St. Stephens Meridian, Pearl River County, Hydrologic Unit 03180004, near left bank at downstream side of bridge on County Highway, 3.2 mi west of Caesar, and 3.5 mi downstream from Stanfield Creek.

DRAINAGE AREA.--86.1 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 62.00 ft above Mississippi Department of Transportation datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN  | FEB  | MAR  | APR   | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|--------|------|------|------|-------|------|-------|-------|-------|-------|
| 1     | 5.1   | 28    | 4.9    | 17   | 40   | 27   | 47    | 3.7  | 1.8   | 2.8   | 1.6   | 1.1   |
| 2     | 4.9   | 13    | 4.8    | 27   | 35   | 22   | 38    | 3.5  | 1.7   | 2.6   | 1.5   | 1.4   |
| 3     | 5.0   | 10    | 5.2    | 29   | 31   | 19   | 40    | 3.4  | 1.6   | 2.4   | 1.3   | 1.1   |
| 4     | 5.6   | 9.1   | 5.6    | 40   | 27   | 16   | 123   | 3.3  | 1.5   | 2.1   | 1.5   | .94   |
| 5     | 7.3   | 7.6   | 5.9    | 68   | 17   | 14   | 91    | 3.1  | 1.6   | 1.9   | 1.6   | .96   |
| 6     | 5.2   | 6.7   | 5.2    | 56   | 15   | 13   | 57    | 3.1  | 1.6   | 1.8   | 1.3   | .95   |
| 7     | 4.7   | 6.2   | 5.4    | 44   | 14   | 12   | 38    | 2.9  | 1.6   | 1.6   | 1.1   | .86   |
| 8     | 6.8   | 6.0   | 5.5    | 38   | 14   | 12   | 26    | 2.9  | 1.5   | 1.7   | 1.2   | 1.3   |
| 9     | 44    | 6.0   | 5.9    | 37   | 14   | 11   | 19    | 2.7  | 1.7   | 1.7   | 1.6   | 2.8   |
| 10    | 76    | 6.2   | 5.6    | 53   | 14   | 13   | 15    | 2.6  | 1.7   | 1.4   | 2.0   | 4.6   |
| 11    | 103   | 5.9   | 5.5    | 85   | 14   | 12   | 13    | 2.6  | 1.5   | 1.3   | 1.8   | 18    |
| 12    | 77    | 5.1   | 6.5    | 65   | 14   | 13   | 14    | 2.5  | 1.5   | 1.2   | 1.8   | 8.5   |
| 13    | 52    | 4.7   | 12     | 49   | 14   | 13   | 25    | 2.4  | 1.3   | 1.1   | 1.7   | 5.9   |
| 14    | 38    | 4.7   | 14     | 31   | 13   | 14   | 23    | 2.3  | 1.5   | .98   | 1.7   | 5.0   |
| 15    | 28    | 4.6   | 24     | 24   | 17   | 15   | 20    | 2.1  | 1.9   | .96   | 1.7   | 5.6   |
| 16    | 21    | 4.4   | 21     | 21   | 17   | 28   | 13    | 2.0  | 2.7   | .89   | 1.5   | 4.8   |
| 17    | 17    | 4.5   | 16     | 18   | 15   | 18   | 11    | 2.0  | 26    | .87   | 1.2   | 3.6   |
| 18    | 14    | 4.4   | 21     | 17   | 14   | 18   | 9.2   | 2.0  | 16    | .86   | .99   | 3.2   |
| 19    | 11    | 4.4   | 68     | 16   | 13   | 40   | 8.0   | 1.9  | 11    | .91   | .86   | 2.7   |
| 20    | 9.9   | 4.8   | 130    | 14   | 12   | 89   | 7.1   | 1.9  | 7.2   | .88   | .97   | 2.3   |
| 21    | 8.7   | 5.1   | 146    | 17   | 11   | 76   | 6.3   | 2.1  | 5.2   | .85   | 1.2   | 2.0   |
| 22    | 7.9   | 4.9   | 145    | 15   | 12   | 51   | 5.7   | 2.6  | 4.8   | 1.2   | 2.3   | 2.2   |
| 23    | 7.3   | 4.7   | 93     | 15   | 11   | 34   | 5.2   | 2.5  | 3.8   | 1.5   | 2.0   | 2.5   |
| 24    | 5.9   | 4.8   | 62     | 41   | 11   | 25   | 5.6   | 4.4  | 3.1   | .96   | 1.5   | 2.3   |
| 25    | 5.4   | 4.9   | 42     | 65   | 10   | 20   | 5.2   | 5.1  | 7.1   | .88   | 1.3   | 2.0   |
| 26    | 5.0   | 5.1   | 33     | 43   | 10   | 17   | 4.8   | 4.0  | 23    | .87   | 1.2   | 1.6   |
| 27    | 4.9   | 5.0   | 27     | 33   | 24   | 18   | 4.7   | 3.1  | 7.5   | .78   | 1.2   | 1.4   |
| 28    | 4.7   | 5.0   | 23     | 28   | 41   | 21   | 4.5   | 2.6  | 4.6   | .73   | 1.2   | 1.3   |
| 29    | 4.5   | 5.3   | 20     | 30   | 35   | 29   | 4.2   | 2.3  | 3.5   | .76   | 1.0   | 1.3   |
| 30    | 4.9   | 5.2   | 19     | 47   | ---  | 125  | 3.9   | 2.1  | 3.2   | .77   | .93   | 1.2   |
| 31    | 22    | ---   | 18     | 46   | ---  | 68   | ---   | 1.9  | ---   | .95   | .91   | ---   |
| TOTAL | 616.7 | 196.3 | 1000.0 | 1129 | 529  | 903  | 687.4 | 85.6 | 152.7 | 40.20 | 43.66 | 93.41 |
| MEAN  | 19.9  | 6.54  | 32.3   | 36.4 | 18.2 | 29.1 | 22.9  | 2.76 | 5.09  | 1.30  | 1.41  | 3.11  |
| MAX   | 103   | 28    | 146    | 85   | 41   | 125  | 123   | 5.1  | 26    | 2.8   | 2.3   | 18    |
| MIN   | 4.5   | 4.4   | 4.8    | 14   | 10   | 11   | 3.9   | 1.9  | 1.3   | .73   | .86   | .86   |
| MED   | 7.3   | 5.1   | 18     | 33   | 14   | 18   | 13    | 2.6  | 2.3   | .98   | 1.3   | 2.1   |
| CFSM  | .23   | .08   | .37    | .42  | .21  | .34  | .27   | .03  | .06   | .02   | .02   | .04   |
| IN.   | .27   | .08   | .43    | .49  | .23  | .39  | .30   | .04  | .07   | .02   | .02   | .04   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

|      | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 24.9 | 49.8 | 77.1 | 393  | 241  | 332  | 102  | 90.7 | 90.0 | 68.1 | 29.4 | 26.4 |
| MAX  | 37.8 | 107  | 133  | 1152 | 572  | 675  | 252  | 316  | 308  | 217  | 97.8 | 84.8 |
| (WY) | 1999 | 1998 | 1998 | 1998 | 1997 | 1998 | 1997 | 1997 | 1997 | 1997 | 1997 | 1998 |
| MIN  | 13.1 | 6.54 | 32.3 | 36.4 | 18.2 | 29.1 | 22.9 | 2.76 | 5.09 | 1.30 | 1.41 | 3.11 |
| (WY) | 1998 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1996 - 2000

|                          |         |         |      |
|--------------------------|---------|---------|------|
| ANNUAL TOTAL             | 19934.5 | 5476.97 | 127  |
| ANNUAL MEAN              | 54.6    | 15.0    | 224  |
| HIGHEST ANNUAL MEAN      |         |         | 15.0 |
| LOWEST ANNUAL MEAN       |         |         | 224  |
| HIGHEST DAILY MEAN       | 2830    | Mar 15  | 146  |
| LOWEST DAILY MEAN        | 2.8     | Sep 22  | .73  |
| ANNUAL SEVEN-DAY MINIMUM | 2.9     | Sep 21  | .82  |
| INSTANTANEOUS PEAK FLOW  |         |         | 169  |
| INSTANTANEOUS PEAK STAGE |         |         | 6.17 |
| INSTANTANEOUS LOW FLOW   |         |         | .66  |
| ANNUAL RUNOFF (CFSM)     | .63     |         | .17  |
| ANNUAL RUNOFF (INCHES)   | 8.61    |         | 2.37 |
| 10 PERCENT EXCEEDS       | 93      |         | 40   |
| 50 PERCENT EXCEEDS       | 15      |         | 5.4  |
| 90 PERCENT EXCEEDS       | 4.4     |         | 1.2  |

## PEARL RIVER BASIN

02492360 WEST HOBOLOCHITTO CREEK NEAR MCNEILL, MS

LOCATION.--Lat 30°39'42", long 89°41'10", in NW1/4 sec.34, T.4 S., R.8 W., St. Stephens Meridian, Pearl River County, Hydrologic Unit 03180004, near left bank at downstream side of bridge on County Highway, 0.2 mi downstream from Price Creek, and 3.1 mi west of McNeill.

DRAINAGE AREA.--175 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1965 to September 1968; October 1968 to September 1996 (annual peaks only), October 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 55.64 ft above mean sea level.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1961 reached a stage of 24.96 ft from flood mark. Flood mark of July 1916 reached a stage approximately 5.0 ft higher than the Dec. 1961 flood from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Oct. 10 | 0930 | *1,480                            | *10.80              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| 1     | 18   | 46   | 20   | 38   | 43   | 37   | 42   | 16   | 10    | 31    | 13    | 15    |
| 2     | 25   | 28   | 20   | 37   | 39   | 32   | 35   | 16   | 9.9   | 22    | 9.3   | 9.7   |
| 3     | 21   | 24   | 20   | 35   | 36   | 29   | 34   | 16   | 9.3   | 17    | 8.4   | 7.7   |
| 4     | 19   | 22   | 20   | 59   | 34   | 27   | 69   | 15   | 9.3   | 14    | 8.2   | 7.2   |
| 5     | 18   | 21   | 22   | 211  | 32   | 26   | 138  | 15   | 13    | 13    | 7.8   | 8.2   |
| 6     | 17   | 20   | 21   | 128  | 31   | 25   | 75   | 15   | 14    | 12    | 7.6   | 12    |
| 7     | 16   | 19   | 21   | 80   | 30   | 25   | 50   | 14   | 12    | 11    | 7.4   | 9.2   |
| 8     | 18   | 19   | 21   | 61   | 29   | 24   | 39   | 14   | 11    | 9.9   | 7.6   | 12    |
| 9     | 155  | 19   | 22   | 52   | 29   | 24   | 32   | 14   | 10    | 9.8   | 8.7   | 14    |
| 10    | 1270 | 19   | 22   | 86   | 28   | 23   | 29   | 13   | 10    | 9.7   | 9.8   | 13    |
| 11    | 521  | 19   | 22   | 122  | 28   | 25   | 26   | 13   | 9.8   | 8.9   | 14    | 18    |
| 12    | 171  | 18   | 23   | 99   | 28   | 26   | 25   | 13   | 9.6   | 8.6   | 11    | 12    |
| 13    | 98   | 18   | 55   | 72   | 28   | 30   | 52   | 13   | 9.8   | 8.3   | 11    | 17    |
| 14    | 66   | 18   | 38   | 60   | 29   | 36   | 57   | 12   | 9.6   | 7.9   | 11    | 17    |
| 15    | 51   | 17   | 37   | 52   | 28   | 32   | 80   | 12   | 21    | 7.9   | 10    | 11    |
| 16    | 42   | 17   | 33   | 46   | 27   | 32   | 54   | 12   | 30    | 7.5   | 9.7   | 9.6   |
| 17    | 36   | 17   | 29   | 41   | 27   | 32   | 41   | 12   | 19    | 7.7   | 9.0   | 9.2   |
| 18    | 32   | 17   | 98   | 38   | 27   | 38   | 33   | 11   | 13    | 7.9   | 8.4   | 9.1   |
| 19    | 30   | 17   | 364  | 36   | 26   | 72   | 29   | 11   | 13    | 7.6   | 7.9   | 9.2   |
| 20    | 28   | 17   | 234  | 35   | 27   | 142  | 26   | 11   | 13    | 7.4   | 7.5   | 8.9   |
| 21    | 25   | 18   | 491  | 34   | 27   | 149  | 24   | 14   | 12    | 7.3   | 7.8   | 8.7   |
| 22    | 24   | 18   | 567  | 32   | 26   | 82   | 22   | 14   | 12    | 7.8   | 9.1   | 10    |
| 23    | 23   | 18   | 211  | 38   | 25   | 56   | 21   | 17   | 12    | 9.4   | 9.6   | 11    |
| 24    | 22   | 19   | 118  | 87   | 24   | 44   | 23   | 18   | 11    | 9.0   | 7.8   | 8.9   |
| 25    | 21   | 19   | 83   | 67   | 24   | 37   | 21   | 15   | 12    | 8.0   | 8.1   | 8.2   |
| 26    | 21   | 20   | 66   | 56   | 23   | 34   | 20   | 13   | 45    | 7.4   | 11    | 8.2   |
| 27    | 21   | 20   | 57   | 45   | 43   | 40   | 19   | 12   | 68    | 7.7   | 8.3   | 8.3   |
| 28    | 20   | 20   | 51   | 44   | 42   | 52   | 19   | 11   | 18    | 19    | 7.8   | 8.1   |
| 29    | 19   | 20   | 46   | 46   | 46   | 64   | 18   | 11   | 18    | 9.2   | 7.5   | 8.0   |
| 30    | 19   | 20   | 43   | 47   | ---  | 50   | 17   | 10   | 20    | 8.4   | 7.4   | 8.0   |
| 31    | 41   | ---  | 40   | 47   | ---  | 46   | ---  | 10   | ---   | 10    | 9.1   | ---   |
| TOTAL | 2908 | 604  | 2915 | 1931 | 886  | 1391 | 1170 | 413  | 484.3 | 332.3 | 280.8 | 316.4 |
| MEAN  | 93.8 | 20.1 | 94.0 | 62.3 | 30.6 | 44.9 | 39.0 | 13.3 | 16.1  | 10.7  | 9.06  | 10.5  |
| MAX   | 1270 | 46   | 567  | 211  | 46   | 149  | 138  | 18   | 68    | 31    | 14    | 18    |
| MIN   | 16   | 17   | 20   | 32   | 23   | 23   | 17   | 10   | 9.3   | 7.3   | 7.4   | 7.2   |
| MED   | 24   | 19   | 38   | 47   | 28   | 34   | 30   | 13   | 12    | 8.9   | 8.4   | 9.2   |
| CFSM  | .54  | .12  | .54  | .36  | .17  | .26  | .22  | .08  | .09   | .06   | .05   | .06   |
| IN.   | .62  | .13  | .62  | .41  | .19  | .30  | .25  | .09  | .10   | .07   | .06   | .07   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)

|      | MEAN | 52.1 | 61.6 | 183  | 564  | 579  | 474  | 228  | 169  | 134  | 124  | 83.2 | 55.7 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 93.8 | 170  | 546  | 1920 | 1792 | 1231 | 474  | 465  | 635  | 451  | 159  | 121  |      |
| (WY) | 2000 | 1998 | 1968 | 1998 | 1966 | 1998 | 1997 | 1997 | 1997 | 1997 | 1968 | 1965 |      |
| MIN  | 32.7 | 20.1 | 46.9 | 62.3 | 30.6 | 44.9 | 39.0 | 13.3 | 16.1 | 10.7 | 9.06 | 10.5 |      |
| (WY) | 1998 | 2000 | 1999 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |      |

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1965 - 2000

|                          |       |         |       |
|--------------------------|-------|---------|-------|
| ANNUAL TOTAL             | 43285 | 13631.8 |       |
| ANNUAL MEAN              | 119   | 37.2    |       |
| HIGHEST ANNUAL MEAN      |       |         | 223   |
| LOWEST ANNUAL MEAN       |       |         | 390   |
| HIGHEST DAILY MEAN       | 5620  | Mar 14  | 8790  |
| LOWEST DAILY MEAN        | 13    | Sep 25  | 7.2   |
| ANNUAL SEVEN-DAY MINIMUM | 14    | Sep 22  | 7.6   |
| INSTANTANEOUS PEAK FLOW  |       |         | 1480  |
| INSTANTANEOUS PEAK STAGE |       |         | 10.80 |
| ANNUAL RUNOFF (CFSM)     | .68   |         | .21   |
| ANNUAL RUNOFF (INCHES)   | 9.20  |         | 2.90  |
| 10 PERCENT EXCEEDS       | 188   |         | 59    |
| 50 PERCENT EXCEEDS       | 36    |         | 20    |
| 90 PERCENT EXCEEDS       | 17    |         | 8.4   |
|                          |       |         | 21    |

## TENNESSEE RIVER BASIN

03592718 LITTLE YELLOW CREEK EAST NEAR BURNSVILLE, MS

LOCATION.--Lat 34°50'10", long 88°17'14", in NW1/4 SE1/4 sec.7, T.3 S., R.10 E., Chickasaw Meridian, Tishomingo County, Hydrologic Unit 06030005, on right bank about 70 ft downstream of bridge on county road 0.2 mi northeast of Walker Siding, 2.0 mi east of Burnsville, 0.1 mi north of railroad and 0.25 mi upstream of confluence of Tenn-Tom Waterway.

DRAINAGE AREA.--24.7 mi<sup>2</sup>, Tennessee Valley Authority.

PERIOD OF RECORD.--May 1973 to current year.

REVISED RECORDS.--WDR MS-78-1: 1973(M), 1976(M).

GAGE.--Water-stage recorder. Datum of gage is 429.51 ft above Mississippi Department of Transportation datum.

REMARKS.--Estimated daily discharges: Jan. 4-18. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 3,180 ft<sup>3</sup>/s, gage height, 19.12 ft was measured Mar. 16, 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft<sup>3</sup>/s, and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 3 | 0100 | *879                              | *13.77              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|------|-------|
| 1     | 5.5   | 55    | 9.9   | 12   | 18   | 21   | 18   | 15    | 7.1   | 6.0   | 3.9  | 2.1   |
| 2     | 5.2   | 158   | 10    | 13   | 17   | 18   | 345  | 15    | 6.4   | 5.4   | 3.5  | 2.0   |
| 3     | 5.6   | 19    | 10    | 18   | 16   | 17   | 632  | 14    | 6.2   | 4.8   | 3.0  | 2.0   |
| 4     | 6.2   | 11    | 11    | e33  | 16   | 17   | 243  | 16    | 6.5   | 4.4   | 3.1  | 2.0   |
| 5     | 6.5   | 9.2   | 14    | e18  | 15   | 15   | 101  | 20    | 8.7   | 4.3   | 3.2  | 2.0   |
| 6     | 6.6   | 8.8   | 15    | e14  | 14   | 15   | 56   | 15    | 8.5   | 3.9   | 2.9  | 2.3   |
| 7     | 6.4   | 8.6   | 11    | e13  | 14   | 14   | 45   | 13    | 6.9   | 4.5   | 2.7  | 2.7   |
| 8     | 6.5   | 8.6   | 11    | e12  | 13   | 14   | 58   | 12    | 6.1   | 4.0   | 2.5  | 13    |
| 9     | 19    | 8.9   | 11    | e23  | 13   | 14   | 36   | 11    | 5.7   | 3.6   | 2.8  | 16    |
| 10    | 8.2   | 9.1   | 23    | e17  | 13   | 15   | 31   | 29    | 5.2   | 3.5   | 2.7  | 6.5   |
| 11    | 4.7   | 9.2   | 14    | e12  | 15   | 58   | 32   | 16    | 4.7   | 3.5   | 2.6  | 4.7   |
| 12    | 4.1   | 9.4   | 31    | e12  | 18   | 25   | 54   | 13    | 4.4   | 4.0   | 2.5  | 7.1   |
| 13    | 4.5   | 9.5   | 118   | e13  | 26   | 20   | 115  | 12    | 4.3   | 10    | 2.3  | 6.0   |
| 14    | 4.4   | 9.7   | 32    | e12  | 82   | 17   | 92   | 11    | 4.3   | 4.7   | 2.2  | 4.0   |
| 15    | 4.1   | 10    | 21    | e12  | 27   | 16   | 46   | 10    | 4.1   | 3.5   | 2.1  | 3.3   |
| 16    | 4.2   | 9.8   | 16    | e12  | 22   | 18   | 38   | 10    | 4.1   | 6.5   | 2.1  | 2.9   |
| 17    | 4.7   | 9.8   | 15    | e15  | 27   | 18   | 33   | 9.6   | 4.5   | 4.2   | 2.1  | 2.7   |
| 18    | 5.5   | 10    | 14    | e18  | 45   | 15   | 27   | 9.6   | 17    | 3.5   | 2.0  | 2.7   |
| 19    | 5.7   | 10    | 14    | 18   | 25   | 169  | 25   | 8.9   | 11    | 3.5   | 2.1  | 2.6   |
| 20    | 6.9   | 14    | 14    | 18   | 20   | 130  | 23   | 9.2   | 25    | 3.2   | 2.0  | 2.5   |
| 21    | 5.9   | 13    | 16    | 16   | 18   | 49   | 21   | 10    | 44    | 4.4   | 2.1  | 4.1   |
| 22    | 5.6   | 11    | 17    | 24   | 17   | 33   | 20   | 9.9   | 11    | 3.7   | 2.1  | 3.7   |
| 23    | 5.5   | 11    | 14    | 38   | 16   | 27   | 19   | 11    | 9.2   | 3.1   | 2.1  | 3.8   |
| 24    | 6.1   | 11    | 14    | 23   | 16   | 24   | 73   | 12    | 6.9   | 3.1   | 2.2  | 4.9   |
| 25    | 6.4   | 13    | 13    | 19   | 15   | 33   | 36   | 10    | 5.6   | 2.7   | 2.2  | 6.8   |
| 26    | 6.7   | 19    | 13    | 17   | 17   | 85   | 24   | 9.7   | 4.8   | 2.6   | 8.0  | 5.5   |
| 27    | 7.0   | 12    | 13    | 16   | 101  | 45   | 21   | 9.4   | 4.9   | 2.7   | 5.4  | 4.5   |
| 28    | 6.9   | 11    | 12    | 18   | 32   | 30   | 22   | 12    | 5.4   | 2.5   | 2.7  | 3.2   |
| 29    | 7.0   | 10    | 12    | 29   | 24   | 24   | 18   | 10    | 9.7   | 3.2   | 2.3  | 3.3   |
| 30    | 6.7   | 9.9   | 12    | 28   | ---  | 22   | 16   | 9.1   | 9.3   | 4.8   | 2.2  | 3.5   |
| 31    | 7.3   | ---   | 12    | 21   | ---  | 20   | ---  | 8.0   | ---   | 4.4   | 2.1  | ---   |
| TOTAL | 195.6 | 518.5 | 562.9 | 564  | 712  | 1038 | 2320 | 380.4 | 261.5 | 128.2 | 85.7 | 132.4 |
| MEAN  | 6.31  | 17.3  | 18.2  | 18.2 | 24.6 | 33.5 | 77.3 | 12.3  | 8.72  | 4.14  | 2.76 | 4.41  |
| MAX   | 19    | 158   | 118   | 38   | 101  | 169  | 632  | 29    | 44    | 10    | 8.0  | 16    |
| MIN   | 4.1   | 8.6   | 9.9   | 12   | 13   | 14   | 16   | 8.0   | 4.1   | 2.5   | 2.0  | 2.0   |
| MED   | 6.1   | 10    | 14    | 17   | 17   | 20   | 34   | 11    | 6.3   | 3.9   | 2.3  | 3.4   |
| CFSM  | .26   | .70   | .74   | .74  | .99  | 1.36 | 3.13 | .50   | .35   | .17   | .11  | .18   |
| IN.   | .29   | .78   | .85   | .85  | 1.07 | 1.56 | 3.49 | .57   | .39   | .19   | .13  | .20   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)

|      | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 15.0 | 42.6 | 64.5 | 71.1 | 66.4 | 75.4 | 61.5 | 53.1 | 24.9 | 13.5 | 11.0 | 12.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MAX  | 40.6 | 146  | 301  | 246  | 185  | 246  | 164  | 281  | 103  | 55.7 | 67.3 | 67.7 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1976 | 1978 | 1983 | 1974 | 1990 | 1980 | 1991 | 1991 | 1989 | 1994 | 1992 | 1979 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MIN  | 5.09 | 10.9 | 14.8 | 13.3 | 24.6 | 28.8 | 11.4 | 6.90 | 3.88 | 4.14 | 2.76 | 3.03 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1988 | 1999 | 1981 | 1986 | 2000 | 1988 | 1986 | 1988 | 1988 | 2000 | 2000 | 1999 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

## SUMMARY STATISTICS

|                          | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1973 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 12769.1                | 6899.2              |                         |
| ANNUAL MEAN              | 35.0                   | 18.9                | 42.5                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 79.2                    |
| LOWEST ANNUAL MEAN       |                        |                     | 18.7                    |
| HIGHEST DAILY MEAN       | 1380                   | 632                 | 4910                    |
| LOWEST DAILY MEAN        | 2.5                    | 2.0                 | 1.5                     |
| ANNUAL SEVEN-DAY MINIMUM | 2.5                    | 2.1                 | 2.1                     |
| INSTANTANEOUS PEAK FLOW  |                        | 879                 | 1000000                 |
| INSTANTANEOUS PEAK STAGE |                        | 13.77               | 21.74                   |
| INSTANTANEOUS LOW FLOW   |                        | 1.8                 | 1.5                     |
| ANNUAL RUNOFF (CFSM)     | 1.42                   | .76                 | 1.72                    |
| ANNUAL RUNOFF (INCHES)   | 19.23                  | 10.39               | 23.38                   |
| 10 PERCENT EXCEEDS       | 62                     | 31                  | 74                      |
| 50 PERCENT EXCEEDS       | 13                     | 11                  | 18                      |
| 90 PERCENT EXCEEDS       | 3.5                    | 2.7                 | 5.2                     |

e Estimated

LOWER MISSISSIPPI RIVER BASIN

## YAZOO RIVER BASIN

07268000 LITTLE TALLAHATCHIE RIVER AT ETTA, MS

LOCATION.--Lat 34°28'58", long 89°13'18", in SW1/4 SW1/4 sec.8, T.7 S., R.1 E., Chickasaw Meridian, Union County, Hydrologic Unit 08030201, on right bank at downstream side of bridge on State Highway 30, 0.8 mi northeast of Etta, 3.8 mi upstream from Puskus Creek, 5.0 mi downstream from Locks Creek, 12.3 mi west of New Albany, and 55.0 mi upstream from head of Panola-Quitman Floodway.

DRAINAGE AREA. -- 526 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1938 to current year. November 1936 to May 1937 (gage heights and discharge measurements only) in reports of U. S. Army Corps of Engineers, Vicksburg district. Prior to October 1971 published as Tallahatchie River at Etta.

REVISED RECORDS.--WSP 897: Drainage area. WSP 1211: 1948, 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 273.48 ft above sea level (levels by U. S. Army Corps of Engineers). Nov. 23, 1936 to May 31, 1937, nonrecording gage at same site at datum 5.33 ft higher. Sept. 24, 1938 to Mar. 16, 1939, nonrecording gage, Mar. 17, 1939 to Aug. 25, 1952, water-stage recorder, and Aug. 26, 1952 to June 22, 1953, nonrecording gage, all at same site. Sept. 24, 1938 to Sept. 30, 1952, at datum 5.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corp of Engineers satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 4 | 0430 | *15,700                           | *25.13              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1     | 22   | 26   | 30   | 43   | 106  | 101   | 67    | 152  | 38   | 55   | 100  | 13   |
| 2     | 20   | 46   | 31   | 44   | 88   | 82    | 6810  | 149  | 37   | 39   | 33   | 12   |
| 3     | 19   | 43   | 33   | 106  | 76   | 70    | 12100 | 776  | 36   | 32   | 24   | 12   |
| 4     | 19   | 32   | 36   | 709  | 72   | 67    | 11600 | 379  | 40   | 28   | 21   | 12   |
| 5     | 18   | 28   | 44   | 185  | 63   | 63    | 3350  | 231  | 35   | 27   | 22   | 13   |
| 6     | 17   | 27   | 70   | 108  | 58   | 56    | 1200  | 167  | 34   | 26   | 21   | 13   |
| 7     | 18   | 27   | 52   | 87   | 54   | 52    | 754   | 133  | 34   | 24   | 18   | 14   |
| 8     | 18   | 27   | 41   | 107  | 54   | 48    | 992   | 111  | 33   | 24   | 16   | 18   |
| 9     | 34   | 27   | 36   | 118  | 53   | 49    | 659   | 95   | 32   | 22   | 17   | 19   |
| 10    | 56   | 27   | 84   | 141  | 52   | 69    | 511   | 88   | 32   | 21   | 17   | 18   |
| 11    | 29   | 28   | 103  | 99   | 52   | 816   | 443   | 84   | 32   | 20   | 24   | 17   |
| 12    | 23   | 28   | 60   | 76   | 53   | 329   | 565   | 76   | 31   | 19   | 22   | 16   |
| 13    | 21   | 27   | 530  | 72   | 64   | 143   | 1150  | 67   | 31   | 22   | 17   | 18   |
| 14    | 20   | 28   | 193  | 66   | 529  | 99    | 1190  | 58   | 30   | 27   | 16   | 18   |
| 15    | 20   | 30   | 94   | 58   | 264  | 81    | 696   | 51   | 30   | 22   | 16   | 15   |
| 16    | 20   | 29   | 66   | 56   | 148  | 163   | 538   | 49   | 30   | 20   | 15   | 15   |
| 17    | 19   | 29   | 56   | 62   | 162  | 469   | 444   | 48   | 34   | 18   | 15   | 14   |
| 18    | 20   | 27   | 53   | 102  | 597  | 167   | 360   | 47   | 985  | 17   | 15   | 14   |
| 19    | 20   | 27   | 50   | 83   | 329  | 1400  | 309   | 46   | 222  | 18   | 15   | 14   |
| 20    | 20   | 30   | 48   | 71   | 177  | 3160  | 270   | 45   | 95   | 17   | 15   | 14   |
| 21    | 20   | 38   | 50   | 63   | 118  | 766   | 226   | 48   | 64   | 28   | 15   | 14   |
| 22    | 21   | 39   | 56   | 63   | 96   | 401   | 194   | 46   | 48   | 27   | 14   | 14   |
| 23    | 21   | 35   | 54   | 308  | 82   | 332   | 178   | 44   | 42   | 22   | 14   | 14   |
| 24    | 20   | 33   | 49   | 177  | 73   | 221   | 1040  | 43   | 38   | 25   | 14   | 14   |
| 25    | 21   | 32   | 46   | 102  | 69   | 168   | 884   | 42   | 33   | 21   | 15   | 15   |
| 26    | 21   | 34   | 44   | 80   | 63   | 231   | 402   | 43   | 28   | 18   | 15   | 15   |
| 27    | 22   | 37   | 43   | 70   | 443  | 161   | 275   | 43   | 75   | 17   | 15   | 14   |
| 28    | 22   | 36   | 43   | 67   | 254  | 120   | 302   | 204  | 417  | 16   | 14   | 14   |
| 29    | 23   | 33   | 43   | 104  | 132  | 90    | 237   | 74   | 173  | 16   | 14   | 14   |
| 30    | 22   | 31   | 43   | 163  | ---  | 77    | 181   | 39   | 136  | 151  | 13   | 13   |
| 31    | 22   | ---  | 43   | 132  | ---  | 69    | ---   | 38   | ---  | 104  | 13   | ---  |
| TOTAL | 688  | 941  | 2224 | 3722 | 4381 | 10120 | 47927 | 3516 | 2925 | 943  | 615  | 440  |
| MEAN  | 22.2 | 31.4 | 71.7 | 120  | 151  | 326   | 1598  | 113  | 97.5 | 30.4 | 19.8 | 14.7 |
| MAX   | 56   | 46   | 530  | 709  | 597  | 3160  | 12100 | 776  | 985  | 151  | 100  | 19   |
| MIN   | 17   | 26   | 30   | 43   | 52   | 48    | 67    | 38   | 28   | 16   | 13   | 12   |
| MED   | 20   | 30   | 49   | 87   | 82   | 120   | 524   | 58   | 36   | 22   | 15   | 14   |
| CFSM  | .04  | .06  | .14  | .23  | .29  | .62   | 3.04  | .22  | .19  | .06  | .04  | .03  |
| IN.   | .05  | .07  | .16  | .26  | .31  | .72   | 3.39  | .25  | .21  | .07  | .04  | .03  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 131  | 684  | 1201 | 1491 | 1678 | 1817 | 1406 | 899  | 570  | 303  | 167  | 175  |
| MAX  | 863  | 3877 | 6915 | 5745 | 5856 | 6449 | 4492 | 4399 | 3673 | 1974 | 1446 | 1930 |
| (WY) | 1983 | 1958 | 1983 | 1974 | 1948 | 1973 | 1991 | 1983 | 1997 | 1989 | 1967 | 1958 |
| MIN  | 9.37 | 18.4 | 56.9 | 65.5 | 151  | 230  | 120  | 107  | 31.4 | 30.4 | 13.2 | 13.2 |
| (WY) | 1944 | 1957 | 1939 | 1963 | 2000 | 1954 | 1986 | 1943 | 1988 | 2000 | 1954 | 1954 |

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1939 - 2000 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |        |        |       |          |       |       |             |
|--------------------------|--------|--------|-------|----------|-------|-------|-------------|
| ANNUAL TOTAL             | 289177 |        | 78442 |          |       |       |             |
| ANNUAL MEAN              | 792    |        | 214   |          |       | 873   |             |
| HIGHEST ANNUAL MEAN      |        |        |       |          |       | 1945  | 1983        |
| LOWEST ANNUAL MEAN       |        |        |       |          |       | 214   | 2000        |
| HIGHEST DAILY MEAN       | 19900  | Mar 14 | 12100 | Apr 3    | 53800 |       | Mar 22 1955 |
| LOWEST DAILY MEAN        | 17     | Oct 6  | 12    | Sep 2    |       | 4.1   | Oct 3 1938  |
| ANNUAL SEVEN-DAY MINIMUM | 18     | Oct 2  | 13    | Aug 30   |       | 4.3   | Oct 3 1938  |
| INSTANTANEOUS PEAK FLOW  |        |        | 15700 | Apr 4    | 85200 |       | May 19 1983 |
| INSTANTANEOUS PEAK STAGE |        |        | 25.13 | Apr 4    |       | 29.32 | Mar 22 1955 |
| INSTANTANEOUS LOW FLOW   |        |        | 11    | Sep 1, 4 |       | 4.1   | Oct 3 1938  |
| ANNUAL RUNOFF (CFSM)     | 1.51   |        | .41   |          |       | 1.66  |             |
| ANNUAL RUNOFF (INCHES)   | 20.45  |        | 5.55  |          |       | 22.54 |             |
| 10 PERCENT EXCEEDS       | 1730   |        | 330   |          |       | 1830  |             |
| 50 PERCENT EXCEEDS       | 118    |        | 43    |          |       | 190   |             |
| 90 PERCENT EXCEEDS       | 21     |        | 15    |          |       | 26    |             |

07273100 HOTOPHA CREEK NEAR BATESVILLE, MS

LOCATION.--Lat 34°21'51", long 89°52'33", in NW1/4 NW1/4 sec.30, T.8 S., R.6 W., Chickasaw Meridian, Panola County, Hydrologic Unit 08030201, on right bank about 150 ft downstream of bridge on State Highway 35, 1.2 mi upstream from mouth, 3.6 mi downstream from Harris Creek, and 4.4 mi northeast of Batesville.

DRAINAGE AREA.--35.1 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 195.45 ft above sea level.

REMARKS.--Estimated daily discharges: Jan. 24-26, Apr. 7-11, and Jul. 31 - Aug 7. Records fair except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,400 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 3 | 1100 | *1,850                            | *9.89               |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB  | MAR   | APR  | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|
| 1     | 8.6   | 8.7   | 5.9   | 8.8   | 12   | 9.7   | 114  | 14    | 7.4   | 6.0   | e6.4  | 4.0   |
| 2     | 8.2   | 8.2   | 5.8   | 8.9   | 11   | 9.1   | 847  | 14    | 7.3   | 5.7   | e7.4  | 3.8   |
| 3     | 7.7   | 7.0   | 6.1   | 9.4   | 11   | 9.0   | 811  | 17    | 7.0   | 5.8   | e6.6  | 3.8   |
| 4     | 7.4   | 7.0   | 6.4   | 11    | 11   | 8.9   | 246  | 17    | 7.4   | 5.8   | e6.5  | 3.8   |
| 5     | 7.5   | 7.1   | 11    | 9.5   | 10   | 8.6   | 86   | 16    | 7.7   | 6.1   | e6.4  | 3.8   |
| 6     | 7.0   | 7.0   | 7.7   | 9.3   | 11   | 8.6   | 60   | 15    | 6.9   | 6.2   | e6.5  | 3.7   |
| 7     | 7.2   | 7.1   | 6.3   | 9.2   | 11   | 8.4   | e33  | 13    | 6.5   | 6.2   | e6.5  | 3.9   |
| 8     | 7.7   | 7.0   | 5.9   | 9.9   | 11   | 8.6   | e31  | 12    | 6.3   | 5.9   | 6.4   | 4.6   |
| 9     | 16    | 6.9   | 6.4   | 14    | 11   | 10    | e27  | 12    | 6.5   | 5.9   | 6.3   | 4.8   |
| 10    | 9.4   | 6.6   | 12    | 11    | 10   | 10    | e25  | 12    | 6.6   | 5.9   | 6.5   | 4.7   |
| 11    | 7.6   | 6.4   | 6.9   | 9.8   | 11   | 15    | e24  | 11    | 6.7   | 6.0   | 6.3   | 5.4   |
| 12    | 6.9   | 6.3   | 27    | 9.3   | 11   | 11    | 23   | 11    | 6.6   | 6.2   | 6.1   | 5.8   |
| 13    | 6.6   | 6.7   | 33    | 9.2   | 11   | 9.7   | 28   | 11    | 6.6   | 6.4   | 5.9   | 6.0   |
| 14    | 6.4   | 6.5   | 15    | 8.8   | 12   | 9.1   | 24   | 9.4   | 7.1   | 7.3   | 5.8   | 5.9   |
| 15    | 6.1   | 6.2   | 11    | 8.8   | 11   | 11    | 21   | 8.7   | 12    | 6.4   | 5.6   | 5.1   |
| 16    | 6.3   | 6.0   | 10    | 9.0   | 11   | 106   | 19   | 8.8   | 6.6   | 5.9   | 5.3   | 4.4   |
| 17    | 6.3   | 5.9   | 9.3   | 9.3   | 12   | 24    | 18   | 8.6   | 17    | 6.0   | 5.2   | 4.1   |
| 18    | 6.1   | 5.9   | 9.0   | 9.5   | 15   | 12    | 17   | 8.5   | 11    | 6.8   | 5.1   | 4.0   |
| 19    | 6.3   | 5.9   | 8.8   | 9.3   | 16   | 236   | 17   | 8.5   | 7.0   | 6.5   | 5.1   | 3.9   |
| 20    | 6.3   | 8.9   | 8.9   | 9.1   | 12   | 98    | 16   | 8.5   | 6.3   | 7.7   | 4.9   | 3.9   |
| 21    | 6.4   | 6.9   | 9.2   | 8.6   | 11   | 32    | 16   | 8.6   | 6.1   | 8.5   | 4.7   | 4.0   |
| 22    | 6.4   | 6.4   | 9.4   | 11    | 11   | 24    | 15   | 8.4   | 6.1   | 6.4   | 4.8   | 3.8   |
| 23    | 6.5   | 6.3   | 8.9   | 14    | 10   | 21    | 14   | 8.4   | 6.3   | 7.3   | 4.9   | 3.9   |
| 24    | 6.5   | 6.4   | 8.8   | e10   | 11   | 19    | 112  | 8.1   | 7.1   | 7.4   | 4.7   | 4.0   |
| 25    | 6.5   | 6.2   | 8.6   | e9.5  | 10   | 18    | 30   | 7.8   | 5.8   | 6.6   | 4.6   | 4.3   |
| 26    | 6.4   | 6.3   | 8.6   | e9.0  | 17   | 18    | 20   | 7.9   | 6.0   | 6.4   | 4.7   | 3.9   |
| 27    | 6.6   | 6.2   | 8.8   | 8.9   | 35   | 22    | 17   | 8.0   | 14    | 6.5   | 4.6   | 3.5   |
| 28    | 6.5   | 6.0   | 8.5   | 10    | 12   | 19    | 16   | 8.8   | 6.5   | 6.6   | 4.5   | 3.3   |
| 29    | 6.4   | 5.8   | 8.4   | 12    | 10   | 17    | 15   | 7.8   | 9.6   | 6.6   | 4.4   | 3.2   |
| 30    | 6.5   | 5.6   | 8.6   | 13    | ---  | 16    | 14   | 7.5   | 6.7   | 7.4   | 4.3   | 3.0   |
| 31    | 6.5   | ---   | 8.6   | 12    | ---  | 15    | ---  | 7.4   | ---   | e6.6  | 4.2   | ---   |
| TOTAL | 222.8 | 199.4 | 308.8 | 311.1 | 358  | 843.7 | 2756 | 324.7 | 230.7 | 201.0 | 171.2 | 126.3 |
| MEAN  | 7.19  | 6.65  | 9.96  | 10.0  | 12.3 | 27.2  | 91.9 | 10.5  | 7.69  | 6.48  | 5.52  | 4.21  |
| MAX   | 16    | 8.9   | 33    | 14    | 35   | 236   | 847  | 17    | 17    | 8.5   | 7.4   | 6.0   |
| MIN   | 6.1   | 5.6   | 5.8   | 8.6   | 10   | 8.4   | 14   | 7.4   | 5.8   | 5.7   | 4.2   | 3.0   |
| CFSM  | .20   | .19   | .28   | .29   | .35  | .78   | 2.62 | .30   | .22   | .18   | .16   | .12   |
| IN.   | .24   | .21   | .33   | .33   | .38  | .89   | 2.92 | .34   | .24   | .21   | .18   | .13   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2000, BY WATER YEAR (WY)

|      | MEAN | 12.1 | 36.2 | 76.6 | 95.3 | 123  | 105  | 76.4 | 35.3 | 41.1 | 22.7 | 15.7 | 12.8 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 23.9 | 97.4 | 242  | 224  | 367  | 148  | 376  | 103  | 95.9 | 106  | 38.5 | 35.8 |      |
| (WY) | 1997 | 1992 | 1992 | 1989 | 1991 | 1991 | 1991 | 1991 | 1997 | 1989 | 1993 | 1997 |      |
| MIN  | 3.59 | 6.65 | 9.96 | 10.0 | 12.3 | 27.2 | 10.3 | 8.11 | 4.65 | 5.89 | 5.52 | 4.11 |      |
| (WY) | 1988 | 2000 | 2000 | 2000 | 2000 | 2000 | 1986 | 1988 | 1988 | 1986 | 2000 | 1986 |      |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1986 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 19664.9                | 6053.7              |                         |
| ANNUAL MEAN              | 53.9                   | 16.5                | 54.4                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 105                     |
| LOWEST ANNUAL MEAN       |                        |                     | 16.5                    |
| HIGHEST DAILY MEAN       | 1500                   | 847                 | 4160                    |
| LOWEST DAILY MEAN        | 5.4                    | 3.0                 | 2.2                     |
| ANNUAL SEVEN-DAY MINIMUM | 5.9                    | 3.6                 | 2.7                     |
| INSTANTANEOUS PEAK FLOW  |                        | 1850                | 10400                   |
| INSTANTANEOUS PEAK STAGE |                        | 9.89                | 16.83                   |
| INSTANTANEOUS LOW FLOW   |                        | 2.8                 | 2.1                     |
| ANNUAL RUNOFF (CFSM)     | 1.53                   | .47                 | 1.55                    |
| ANNUAL RUNOFF (INCHES)   | 20.84                  | 6.42                | 21.07                   |
| 10 PERCENT EXCEEDS       | 98                     | 17                  | 105                     |
| 50 PERCENT EXCEEDS       | 20                     | 7.9                 | 15                      |
| 90 PERCENT EXCEEDS       | 6.5                    | 4.9                 | 5.8                     |

e Estimated





## YAZOO RIVER BASIN

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07274251 TOWN CREEK AT WATER VALLEY, MS

LOCATION.--Lat 34°08'52", long 89°37'51", in NE1/4 NE1/4 sec.8, T.11 S., R.4 W., Chickasaw Meridian, Yalobusha County, Hydrologic Unit 08030203, 30 feet upstream of triple box culvert on right bank, 0.3 mi south of the intersection of Mississippi State Highways 7 and 315, on Mississippi State Highway 7 in Water Valley.

DRAINAGE AREA.--3.97 mi<sup>2</sup>, revised.

PERIOD OF RECORD.--January 1985 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and culvert control. Datum of gage is 276.00 ft above sea level.

REMARKS.--Estimated daily discharges: Sept 17-30. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 9  | 2030 | 412                               | 6.26                | Apr. 3  | 0830 | *552                              | *6.62               |
| Mar. 19 | 1245 | 409                               | 6.25                | Apr. 24 | 0545 | 544                               | 6.60                |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1     | 3.3   | 12   | 1.7   | 1.9   | 2.3   | 1.9   | 36    | 2.0   | 2.7  | 2.4  | 2.4  | 1.7  |
| 2     | 2.8   | 1.9  | 1.8   | 2.0   | 2.5   | 1.9   | 130   | 8.1   | 2.6  | 2.4  | 2.3  | 1.7  |
| 3     | 2.9   | 1.5  | 3.5   | 38    | 2.3   | 2.1   | 189   | 13    | 5.7  | 2.4  | 2.1  | 1.8  |
| 4     | 2.7   | 1.5  | 1.9   | 2.0   | 2.4   | 2.1   | 66    | 2.5   | 5.4  | 2.4  | 2.1  | 1.7  |
| 5     | 2.7   | 1.5  | 16    | 1.8   | 2.4   | 2.2   | 11    | 6.7   | 4.8  | 2.2  | 2.1  | 1.5  |
| 6     | 2.5   | 1.5  | 2.0   | 1.7   | 2.7   | 2.1   | 3.9   | 2.5   | 2.9  | 2.1  | 2.1  | 1.5  |
| 7     | 2.5   | 1.6  | 2.1   | 1.7   | 2.7   | 2.1   | 15    | 2.3   | 2.9  | 2.1  | 2.0  | 6.0  |
| 8     | 6.6   | 1.6  | 2.1   | 6.3   | 2.5   | 2.1   | 42    | 2.3   | 2.9  | 2.1  | 2.1  | 2.8  |
| 9     | 40    | 1.6  | 28    | 7.2   | 2.5   | 9.3   | 4.2   | 5.0   | 2.9  | 2.1  | 2.1  | 2.9  |
| 10    | 2.3   | 1.7  | 4.6   | 2.0   | 2.3   | 28    | 3.9   | 22    | 2.9  | 2.1  | 2.1  | 3.0  |
| 11    | 2.0   | 1.6  | 1.9   | 1.7   | 2.3   | 9.4   | 4.0   | 1.9   | 2.7  | 2.1  | 1.9  | 3.0  |
| 12    | 2.0   | 1.6  | 40    | 1.7   | 2.2   | 1.7   | 7.0   | 2.0   | 2.7  | 4.5  | 1.9  | 3.2  |
| 13    | 2.2   | 1.6  | 6.1   | 2.5   | 16    | 1.9   | 8.5   | 1.7   | 2.4  | 2.2  | 2.1  | 3.3  |
| 14    | 2.7   | 1.6  | 2.3   | 1.5   | 2.3   | 1.8   | 4.2   | 1.6   | 2.4  | 2.1  | 2.1  | 2.9  |
| 15    | 2.4   | 1.5  | 2.1   | 1.7   | 1.7   | 3.3   | 4.1   | 2.7   | 2.4  | 2.1  | 1.9  | 2.9  |
| 16    | 2.7   | 2.3  | 1.9   | 1.8   | 1.7   | 6.9   | 4.4   | 2.7   | 2.5  | 2.1  | 1.9  | 2.8  |
| 17    | 2.9   | 2.5  | 1.9   | 2.0   | 16    | 2.1   | 4.4   | 2.2   | 12   | 1.9  | 1.9  | e2.6 |
| 18    | 2.9   | 2.6  | 1.8   | 2.0   | 3.1   | 2.5   | 4.7   | 2.0   | 3.0  | 2.1  | 2.0  | e2.4 |
| 19    | 2.7   | 6.0  | 1.9   | 2.0   | 1.8   | 122   | 5.5   | 2.1   | 2.4  | 2.1  | 1.8  | e2.2 |
| 20    | 2.7   | 7.9  | 2.1   | 1.8   | 2.1   | 6.1   | 7.6   | 3.3   | 2.4  | 2.6  | 1.7  | e1.9 |
| 21    | 2.7   | 1.3  | 3.7   | 1.9   | 2.0   | 3.3   | 8.9   | 3.2   | 6.4  | 2.2  | 1.8  | e1.9 |
| 22    | 2.5   | 1.4  | 2.0   | 8.2   | 1.7   | 3.0   | 12    | 3.1   | 2.0  | 2.1  | 1.9  | e1.9 |
| 23    | 2.2   | 1.6  | 1.8   | 3.1   | 1.8   | 2.8   | 17    | 3.5   | 2.1  | 7.7  | 1.8  | e1.9 |
| 24    | 2.3   | 1.7  | 1.8   | 2.0   | 1.9   | 2.5   | 117   | 3.7   | 2.1  | 1.5  | 1.7  | e2.0 |
| 25    | 2.2   | 4.1  | 2.3   | 1.9   | 1.9   | 2.5   | 4.0   | 4.2   | 2.1  | 1.6  | 1.9  | e2.0 |
| 26    | 2.2   | 1.7  | 2.3   | 1.9   | 21    | 2.7   | 2.3   | 12    | 2.4  | 1.7  | 1.9  | e2.0 |
| 27    | 2.1   | 1.6  | 2.2   | 1.9   | 2.8   | 10    | 5.3   | 5.8   | 3.0  | 1.7  | 1.8  | e2.0 |
| 28    | 1.9   | 1.7  | 1.9   | 5.9   | 1.7   | 3.7   | 2.2   | 8.6   | 3.7  | 1.7  | 1.7  | e1.9 |
| 29    | 1.9   | 1.7  | 1.9   | 5.1   | 1.8   | 4.4   | 1.9   | 3.4   | 2.7  | 1.8  | 1.7  | e1.9 |
| 30    | 1.7   | 1.7  | 1.8   | 2.9   | ---   | 2.8   | 1.9   | 3.0   | 2.7  | 18   | 1.7  | e1.8 |
| 31    | 1.8   | ---  | 2.1   | 2.5   | ---   | 2.3   | ---   | 2.8   | ---  | 3.4  | 1.7  | ---  |
| TOTAL | 117.0 | 74.1 | 149.5 | 120.6 | 110.4 | 251.5 | 727.9 | 141.9 | 99.8 | 89.5 | 60.2 | 71.1 |
| MEAN  | 3.77  | 2.47 | 4.82  | 3.89  | 3.81  | 8.11  | 24.3  | 4.58  | 3.33 | 2.89 | 1.94 | 2.37 |
| MAX   | 40    | 12   | 40    | 38    | 21    | 122   | 189   | 22    | 12   | 18   | 2.4  | 6.0  |
| MIN   | 1.7   | 1.3  | 1.7   | 1.5   | 1.7   | 1.7   | 1.9   | 1.6   | 2.0  | 1.5  | 1.7  | 1.5  |
| MED   | 2.5   | 1.6  | 2.1   | 2.0   | 2.3   | 2.5   | 5.4   | 3.0   | 2.7  | 2.1  | 1.9  | 2.0  |
| CFSM  | 1.68  | 1.10 | 2.14  | 1.73  | 1.69  | 3.61  | 10.8  | 2.03  | 1.48 | 1.28 | .86  | 1.05 |
| IN.   | 1.93  | 1.23 | 2.47  | 1.99  | 1.83  | 4.16  | 12.03 | 2.35  | 1.65 | 1.48 | 1.00 | 1.18 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2000, BY WATER YEAR (WY)

|      | MEAN | 3.04 | 4.55 | 7.26 | 7.26 | 9.53 | 7.66 | 8.79 | 4.29 | 5.60 | 4.09 | 3.39 | 3.03 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 5.19 | 14.2 | 19.4 | 20.9 | 35.5 | 15.0 | 29.5 | 9.37 | 17.8 | 7.11 | 6.80 | 6.97 |      |
| (WY) | 1997 | 1987 | 1991 | 1997 | 1991 | 1997 | 1991 | 1991 | 1997 | 1989 | 1992 | 1996 |      |
| MIN  | 1.96 | 2.37 | 2.69 | 2.65 | 2.60 | 2.96 | 2.36 | 2.30 | 2.08 | 2.29 | 1.94 | 1.61 |      |
| (WY) | 1990 | 1998 | 1990 | 1986 | 1986 | 1993 | 1986 | 1987 | 1988 | 1987 | 2000 | 1998 |      |

SUMMARY STATISTICS

|                          | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1986 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 2442.9                 | 2013.5              |                         |
| ANNUAL MEAN              | 6.69                   | 5.50                | 5.68                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 10.2                    |
| LOWEST ANNUAL MEAN       |                        |                     | 3.39                    |
| HIGHEST DAILY MEAN       | 118                    | 189                 | 556                     |
| LOWEST DAILY MEAN        | 1.3                    | 1.3                 | 1.3                     |
| ANNUAL SEVEN-DAY MINIMUM | 1.5                    | 1.5                 | 1.3                     |
| INSTANTANEOUS PEAK FLOW  |                        | 552                 | 1800                    |
| INSTANTANEOUS PEAK STAGE |                        | 6.62                | 11.00                   |
| INSTANTANEOUS LOW FLOW   |                        | 1.2                 | 1.2                     |
| ANNUAL RUNOFF (CFSM)     | 2.97                   | 2.45                | 2.53                    |
| ANNUAL RUNOFF (INCHES)   | 40.39                  | 33.29               | 34.31                   |
| 10 PERCENT EXCEEDS       | 9.5                    | 7.6                 | 7.7                     |
| 50 PERCENT EXCEEDS       | 3.5                    | 2.2                 | 2.7                     |
| 90 PERCENT EXCEEDS       | 1.9                    | 1.7                 | 2.0                     |

e Estimated

## 07274252 OTOUCALOPA CREEK CANAL NEAR WATER VALLEY, MS

LOCATION.--Lat 34°08'04", long 89°38'59", in SE 1/4 NE 1/4 sec. 7, T.11 S., R.4 W., Chickasaw Meridian, Yalobusha County, Hydrologic Unit 08030203, on right bank at upstream side of bridge on State Highway 7 Bypass, 1.0 mi west of Water Valley, 4.2 mi upstream from mouth, and 0.1 mi downstream from Johnson Creek.

DRAINAGE AREA.--97.1 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1985 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 250.95 ft above sea level.

REMARKS.--Estimated daily discharges: Feb. 6-11 and Mar. 9-24. Records good except for estimated daily discharges, which are poor. Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,800 ft<sup>3</sup>/s and maimum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 3 | 0945 | *4,000                            | *11.46              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1     | 27   | 35   | 33   | 36   | 54   | 48    | 86    | 50   | 30   | 28   | 33   | 18   |
| 2     | 26   | 33   | 33   | 36   | 51   | 45    | 2620  | 49   | 30   | 27   | 26   | 19   |
| 3     | 25   | 29   | 36   | 227  | 48   | 44    | 2640  | 56   | 33   | 26   | 24   | 19   |
| 4     | 25   | 29   | 37   | 123  | 46   | 42    | 1210  | 54   | 38   | 26   | 24   | 19   |
| 5     | 25   | 28   | 50   | 51   | 43   | 41    | 404   | 49   | 45   | 26   | 24   | 20   |
| 6     | 25   | 28   | 44   | 45   | e41  | 40    | 210   | 48   | 38   | 25   | 23   | 20   |
| 7     | 25   | 28   | 39   | 42   | e40  | 39    | 157   | 46   | 32   | 25   | 22   | 22   |
| 8     | 25   | 28   | 37   | 43   | e39  | 38    | 528   | 43   | 30   | 25   | 22   | 23   |
| 9     | 112  | 28   | 59   | 56   | e38  | e120  | 184   | 42   | 29   | 25   | 21   | 23   |
| 10    | 37   | 28   | 76   | 48   | e37  | e74   | 131   | 44   | 29   | 24   | 21   | 22   |
| 11    | 31   | 29   | 46   | 42   | e38  | e105  | 110   | 41   | 28   | 24   | 22   | 21   |
| 12    | 29   | 27   | 107  | 40   | 39   | e68   | 105   | 39   | 27   | 25   | 21   | 22   |
| 13    | 29   | 28   | 178  | 41   | 45   | e56   | 141   | 38   | 27   | 25   | 22   | 23   |
| 14    | 28   | 27   | 70   | 39   | 94   | e52   | 129   | 37   | 27   | 24   | 23   | 23   |
| 15    | 28   | 28   | 54   | 38   | 55   | e150  | 104   | 36   | 27   | 24   | 23   | 22   |
| 16    | 30   | 29   | 48   | 38   | 46   | e1100 | 91    | 36   | 27   | 23   | 23   | 22   |
| 17    | 29   | 31   | 45   | 38   | 253  | e300  | 81    | 35   | 92   | 23   | 23   | 22   |
| 18    | 29   | 31   | 44   | 38   | 319  | e250  | 72    | 34   | 107  | 23   | 23   | 22   |
| 19    | 28   | 32   | 43   | 38   | 137  | e1350 | 67    | 34   | 42   | 23   | 24   | 22   |
| 20    | 29   | 43   | 43   | 38   | 76   | e470  | 63    | 35   | 34   | 23   | 23   | 22   |
| 21    | 29   | 37   | 43   | 37   | 60   | e160  | 59    | 36   | 106  | 24   | 23   | 21   |
| 22    | 29   | 35   | 40   | 44   | 53   | e120  | 56    | 35   | 54   | 23   | 22   | 21   |
| 23    | 28   | 34   | 38   | 59   | 49   | e92   | 55    | 34   | 33   | 28   | 21   | 21   |
| 24    | 28   | 34   | 38   | 48   | 46   | e78   | 330   | 32   | 31   | 26   | 21   | 21   |
| 25    | 28   | 35   | 37   | 43   | 45   | 64    | 114   | 32   | 29   | 24   | 22   | 22   |
| 26    | 28   | 36   | 37   | 40   | 63   | 63    | 72    | 44   | 29   | 24   | 21   | 22   |
| 27    | 28   | 35   | 37   | 39   | 129  | 106   | 62    | 38   | 29   | 23   | 21   | 22   |
| 28    | 27   | 34   | 37   | 47   | 65   | 67    | 59    | 39   | 35   | 23   | 22   | 21   |
| 29    | 27   | 34   | 36   | 72   | 52   | 56    | 55    | 35   | 32   | 23   | 21   | 21   |
| 30    | 28   | 33   | 36   | 73   | ---  | 52    | 52    | 32   | 30   | 38   | 21   | 20   |
| 31    | 28   | ---  | 37   | 62   | ---  | 49    | ---   | 31   | ---  | 77   | 20   | ---  |
| TOTAL | 950  | 946  | 1538 | 1661 | 2101 | 5339  | 10047 | 1234 | 1180 | 827  | 702  | 638  |
| MEAN  | 30.6 | 31.5 | 49.6 | 53.6 | 72.4 | 172   | 335   | 39.8 | 39.3 | 26.7 | 22.6 | 21.3 |
| MAX   | 112  | 43   | 178  | 227  | 319  | 1350  | 2640  | 56   | 107  | 77   | 33   | 23   |
| MIN   | 25   | 27   | 33   | 36   | 37   | 38    | 52    | 31   | 27   | 23   | 20   | 18   |
| CFSM  | .32  | .32  | .51  | .55  | .75  | 1.77  | 3.45  | .41  | .41  | .27  | .23  | .22  |
| IN.   | .36  | .36  | .59  | .64  | .80  | 2.05  | 3.85  | .47  | .45  | .32  | .27  | .24  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2000, BY WATER YEAR (WY)

|      | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 53.5 | 115  | 243  | 244  | 331  | 290  | 286  | 162  | 158  | 85.7 | 59.9 | 49.1 |      |      |      |
| MAX  | 156  | 496  | 832  | 465  | 1018 | 535  | 1351 | 778  | 539  | 366  | 193  | 116  |      |      |      |
| (WY) | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |      |      |      |
| MIN  | 23.8 | 31.4 | 49.6 | 42.0 | 69.1 | 103  | 49.1 | 30.5 | 19.3 | 24.6 | 18.2 | 18.7 |      |      |      |
| (WY) | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |      |      |      |

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1986 - 2000

|                          | 1999 CALENDAR YEAR | 2000 WATER YEAR | 1986 - 2000 |
|--------------------------|--------------------|-----------------|-------------|
| ANNUAL TOTAL             | 50476              | 27163           |             |
| ANNUAL MEAN              | 138                | 74.2            |             |
| HIGHEST ANNUAL MEAN      |                    |                 | 172         |
| LOWEST ANNUAL MEAN       |                    |                 | 393         |
| HIGHEST DAILY MEAN       | 2850               | Apr 6           | 14800       |
| LOWEST DAILY MEAN        | 24                 | Aug 8           | 13          |
| ANNUAL SEVEN-DAY MINIMUM | 25                 | Aug 8           | 14          |
| INSTANTANEOUS PEAK FLOW  |                    |                 | 17700       |
| INSTANTANEOUS PEAK STAGE |                    |                 | 20.10       |
| INSTANTANEOUS LOW FLOW   |                    |                 | 11          |
| ANNUAL RUNOFF (CFSM)     | 1.42               | .76             | 1.77        |
| ANNUAL RUNOFF (INCHES)   | 19.34              | 10.41           | 24.09       |
| 10 PERCENT EXCEEDS       | 212                | 105             | 318         |
| 50 PERCENT EXCEEDS       | 45                 | 36              | 63          |
| 90 PERCENT EXCEEDS       | 26                 | 22              | 25          |

e Estimated

## 07275530 PETERS (LONG) CREEK NEAR POPE, MS

LOCATION.--Lat 34°12'51", long 89°58'45", in NW1/4 SW1/4 sec.18, T.10 S., R.7 W., Chickasaw Meridian, Panola County, Hydrologic Unit 08030203, near right bank on downstream side of bridge on county road, 1.5 mi west of Pope, 3.0 mi upstream from mouth, and 0.4 mi downstream from Bobo Bayou.

DRAINAGE AREA.--79.2 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1986 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 182.51 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 23 - Jan. 11. Records good except for estimated daily discharges, which are poor. Unpublished records of daily specific conductance, pH, and water temperature during selected storm events are available in files of District office. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) | Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|--------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Apr. 1 | 2330 | *8,520                         | *13.40           | Apr. 3 | 1030 | *8,810                         | *13.65           |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1     | 11    | 15   | 11   | e13  | 14   | 13   | 716  | 19    | 8.9   | 11    | 9.6   | 6.8   |
| 2     | 10    | 12   | 11   | e13  | 14   | 12   | 2990 | 21    | 8.9   | 10    | 13    | 7.0   |
| 3     | 10    | 10   | 13   | e14  | 14   | 13   | 3140 | 28    | 8.9   | 10    | 9.1   | 7.2   |
| 4     | 10    | 10   | 13   | e15  | 13   | 12   | 418  | 28    | 11    | 9.7   | 8.5   | 7.0   |
| 5     | 9.0   | 10   | 19   | e14  | 13   | 12   | 77   | 21    | 13    | 9.7   | 8.4   | 6.9   |
| 6     | 8.9   | 11   | 14   | e13  | 13   | 12   | 42   | 23    | 11    | 9.8   | 8.0   | 7.2   |
| 7     | 8.8   | 11   | 11   | e14  | 13   | 12   | 31   | 18    | 9.0   | 10    | 7.5   | 8.4   |
| 8     | 9.3   | 11   | 10   | e15  | 13   | 12   | 38   | 17    | 8.6   | 10    | 7.3   | 9.7   |
| 9     | 24    | 11   | 13   | e20  | 13   | 31   | 24   | 16    | 8.7   | 10    | 7.3   | 8.9   |
| 10    | 12    | 11   | 29   | e18  | 13   | 17   | 20   | 17    | 8.9   | 9.9   | 7.6   | 9.2   |
| 11    | 9.0   | 11   | 13   | e15  | 13   | 29   | 21   | 16    | 8.5   | 9.6   | 7.8   | 13    |
| 12    | 8.7   | 11   | 111  | 14   | 13   | 18   | 25   | 15    | 8.2   | 12    | 7.4   | 15    |
| 13    | 8.7   | 10   | 92   | 14   | 14   | 14   | 28   | 15    | 8.0   | 14    | 7.2   | 11    |
| 14    | 8.5   | 11   | 23   | 13   | 15   | 13   | 24   | 14    | 15    | 21    | 7.3   | 9.0   |
| 15    | 8.6   | 10   | 16   | 13   | 14   | 17   | 20   | 13    | 54    | 10    | 7.3   | 8.1   |
| 16    | 8.7   | 10   | 13   | 13   | 13   | 370  | 17   | 14    | 12    | 9.0   | 7.5   | 7.9   |
| 17    | 8.8   | 10   | 13   | 14   | 15   | 76   | 16   | 13    | 148   | 8.3   | 7.6   | 7.9   |
| 18    | 8.9   | 10   | 13   | 13   | 21   | 30   | 14   | 13    | 62    | 9.6   | 7.9   | 7.6   |
| 19    | 9.4   | 11   | 13   | 13   | 21   | 682  | 14   | 12    | 28    | 9.2   | 8.0   | 7.7   |
| 20    | 9.5   | 14   | 13   | 13   | 14   | 191  | 13   | 12    | 15    | 8.9   | 7.9   | 7.7   |
| 21    | 9.6   | 11   | 15   | 13   | 13   | 49   | 12   | 12    | 15    | 9.4   | 7.8   | 7.6   |
| 22    | 10    | 10   | 14   | 16   | 13   | 32   | 12   | 12    | 14    | 9.5   | 7.9   | 7.5   |
| 23    | 9.4   | 11   | e13  | 21   | 13   | 25   | 12   | 11    | 12    | 15    | 8.0   | 7.4   |
| 24    | 9.8   | 11   | e12  | 15   | 13   | 21   | 891  | 11    | 12    | 13    | 8.1   | 7.7   |
| 25    | 10    | 11   | e12  | 13   | 13   | 20   | 93   | 11    | 11    | 9.8   | 8.2   | 8.8   |
| 26    | 11    | 11   | e12  | 12   | 31   | 19   | 41   | 11    | 12    | 9.2   | 8.3   | 7.9   |
| 27    | 11    | 11   | e13  | 12   | 79   | 34   | 29   | 10    | 15    | 9.0   | 7.4   | 7.3   |
| 28    | 10    | 10   | e13  | 15   | 18   | 21   | 24   | 12    | 18    | 8.6   | 7.4   | 7.1   |
| 29    | 10    | 10   | e13  | 16   | 14   | 16   | 21   | 10    | 16    | 9.0   | 6.9   | 6.9   |
| 30    | 10    | 10   | e13  | 18   | ---  | 16   | 19   | 9.4   | 12    | 15    | 6.6   | 7.0   |
| 31    | 11    | ---  | e13  | 16   | ---  | 14   | ---  | 9.0   | ---   | 11    | 6.6   | ---   |
| TOTAL | 313.6 | 326  | 607  | 451  | 493  | 1853 | 8842 | 463.4 | 592.6 | 330.2 | 245.8 | 248.4 |
| MEAN  | 10.1  | 10.9 | 19.6 | 14.5 | 17.0 | 59.8 | 295  | 14.9  | 19.8  | 10.7  | 7.93  | 8.28  |
| MAX   | 24    | 15   | 111  | 21   | 79   | 682  | 3140 | 28    | 148   | 21    | 13    | 15    |
| MIN   | 8.5   | 10   | 10   | 12   | 13   | 12   | 12   | 9.0   | 8.0   | 8.3   | 6.6   | 6.8   |
| CFSM  | .13   | .14  | .25  | .18  | .21  | .75  | 3.72 | .19   | .25   | .13   | .10   | .10   |
| IN.   | .15   | .15  | .29  | .21  | .23  | .87  | 4.15 | .22   | .28   | .16   | .12   | .12   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

|      | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 17.9 | 60.2 | 148  | 187  | 269  | 232  | 201  | 78.8 | 80.5 | 49.5 | 32.6 | 27.6 |      |      |
| MAX  | 43.0 | 214  | 418  | 393  | 836  | 350  | 947  | 257  | 333  | 323  | 78.2 | 133  |      |      |
| (WY) | 1997 | 1992 | 1992 | 1989 | 1991 | 1995 | 1991 | 1989 | 1997 | 1989 | 1993 | 1997 |      |      |
| MIN  | 9.09 | 10.7 | 19.6 | 14.5 | 17.0 | 57.6 | 36.2 | 13.6 | 9.26 | 10.7 | 7.93 | 8.28 |      |      |
| (WY) | 1988 | 1999 | 2000 | 2000 | 2000 | 1993 | 1992 | 1988 | 1988 | 2000 | 2000 | 2000 |      |      |

## SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1987 - 2000

|                          | 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1987 - 2000 |
|--------------------------|--------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 37342.6            | 14766.0             |                         |
| ANNUAL MEAN              | 102                | 40.3                | 117                     |
| HIGHEST ANNUAL MEAN      |                    |                     | 228                     |
| LOWEST ANNUAL MEAN       |                    |                     | 40.3                    |
| HIGHEST DAILY MEAN       | 4810               | 3140                | 11700                   |
| LOWEST DAILY MEAN        | 8.5                | 6.6                 | 1.8                     |
| ANNUAL SEVEN-DAY MINIMUM | 8.7                | 6.9                 | 2.6                     |
| INSTANTANEOUS PEAK FLOW  |                    | 8810                | 26500                   |
| INSTANTANEOUS PEAK STAGE |                    | 13.65               | 21.13                   |
| INSTANTANEOUS LOW FLOW   |                    | 6.4                 | 1.6                     |
| ANNUAL RUNOFF (CFSM)     | 1.29               | .51                 | 1.48                    |
| ANNUAL RUNOFF (INCHES)   | 17.54              | 6.94                | 20.11                   |
| 10 PERCENT EXCEEDS       | 109                | 24                  | 169                     |
| 50 PERCENT EXCEEDS       | 19                 | 12                  | 21                      |
| 90 PERCENT EXCEEDS       | 10                 | 7.9                 | 10                      |

e Estimated

a Also occurred on Sept. 1.

07275900 COLDWATER RIVER NEAR OLIVE BRANCH, MS

LOCATION.--Lat 34°54'28", long 89°45'02", in SE1/4 SW1/4 sec.17, T.2 S., R.5 W., Chickasaw Meridian, Desoto County, Hydrologic Unit 08030204 at State Highway 178, about 7 miles east of Olive Branch, Mississippi.

DRAINAGE AREA.--191 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 280.0 ft above sea level (Mississippi Department of Transportation datum).

REMARKS.--Estimated daily discharges: Nov. 17-22 and Dec. 13-21. Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 56   | 59   | 71   | 75   | 93   | 175  | 86   | 75   | 50   | 139  | 45   | 35   |
| 2     | 50   | 73   | 71   | 76   | 90   | 124  | 203  | 79   | 49   | 68   | 42   | 35   |
| 3     | 48   | 90   | 75   | 81   | 89   | 106  | 427  | 102  | 49   | 54   | 46   | 35   |
| 4     | 47   | 76   | 89   | 106  | 86   | 99   | 569  | 240  | 51   | 50   | 44   | 35   |
| 5     | 46   | 68   | 116  | 121  | 84   | 94   | 714  | 318  | 54   | 46   | 44   | 35   |
| 6     | 46   | 66   | 124  | 98   | 81   | 88   | 682  | 327  | 59   | 44   | 69   | 34   |
| 7     | 47   | 65   | 117  | 85   | 80   | 85   | 277  | 339  | 56   | 43   | 45   | 36   |
| 8     | 47   | 66   | 92   | 82   | 79   | 84   | 148  | 190  | 51   | 42   | 40   | 39   |
| 9     | 55   | 68   | 83   | 83   | 80   | 84   | 119  | 114  | 50   | 41   | 38   | 43   |
| 10    | 100  | 69   | 114  | 93   | 80   | 85   | 103  | 105  | 49   | 40   | 38   | 46   |
| 11    | 147  | 69   | 130  | 92   | 81   | 87   | 109  | 102  | 48   | 40   | 39   | 49   |
| 12    | 96   | 69   | 179  | 85   | 82   | 90   | 175  | 88   | 46   | 39   | 53   | 65   |
| 13    | 67   | 69   | e210 | 81   | 130  | 86   | 200  | 80   | 45   | 39   | 49   | 70   |
| 14    | 58   | 69   | e174 | 82   | 338  | 80   | 172  | 73   | 45   | 39   | 42   | 65   |
| 15    | 55   | 69   | e152 | 78   | 282  | 79   | 152  | 65   | 47   | 39   | 39   | 53   |
| 16    | 53   | 69   | e138 | 76   | 160  | 449  | 126  | 62   | 49   | 38   | 38   | 48   |
| 17    | 52   | e67  | e122 | 80   | 120  | 612  | 111  | 61   | 58   | 38   | 37   | 45   |
| 18    | 51   | e89  | e110 | 91   | 115  | 686  | 100  | 61   | 187  | 38   | 37   | 44   |
| 19    | 52   | e116 | e100 | 96   | 149  | 755  | 93   | 60   | 142  | 38   | 36   | 44   |
| 20    | 52   | e124 | e94  | 88   | 186  | 815  | 88   | 58   | 96   | 40   | 36   | 44   |
| 21    | 53   | e117 | e83  | 83   | 153  | 792  | 83   | 59   | 83   | 39   | 37   | 44   |
| 22    | 53   | e102 | 78   | 85   | 112  | 635  | 78   | 93   | 80   | 42   | 37   | 44   |
| 23    | 52   | 87   | 76   | 122  | 101  | 229  | 75   | 70   | 60   | 40   | 37   | 44   |
| 24    | 51   | 82   | 75   | 131  | 119  | 142  | 89   | 61   | 53   | 39   | 37   | 44   |
| 25    | 51   | 82   | 74   | 104  | 116  | 119  | 152  | 59   | 49   | 37   | 36   | 45   |
| 26    | 52   | 80   | 73   | 90   | 251  | 122  | 188  | 58   | 47   | 36   | 36   | 47   |
| 27    | 53   | 80   | 73   | 84   | 609  | 134  | 116  | 55   | 53   | 36   | 37   | 48   |
| 28    | 54   | 78   | 75   | 82   | 651  | 118  | 94   | 56   | 58   | 36   | 37   | 44   |
| 29    | 55   | 75   | 75   | 84   | 481  | 101  | 84   | 54   | 187  | 36   | 36   | 43   |
| 30    | 55   | 73   | 74   | 92   | ---  | 91   | 77   | 54   | 239  | 40   | 36   | 42   |
| 31    | 55   | ---  | 74   | 97   | ---  | 87   | ---  | 51   | ---  | 46   | 35   | ---  |
| TOTAL | 1809 | 2366 | 3191 | 2803 | 5078 | 7333 | 5690 | 3269 | 2190 | 1382 | 1258 | 1345 |
| MEAN  | 58.4 | 78.9 | 103  | 90.4 | 175  | 237  | 190  | 105  | 73.0 | 44.6 | 40.6 | 44.8 |
| MAX   | 147  | 124  | 210  | 131  | 651  | 815  | 714  | 339  | 239  | 139  | 69   | 70   |
| MIN   | 46   | 59   | 71   | 75   | 79   | 79   | 75   | 51   | 45   | 36   | 35   | 34   |
| MED   | 53   | 73   | 89   | 85   | 115  | 106  | 118  | 70   | 52   | 40   | 38   | 44   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

|      | 99.8 | 114  | 171  | 368  | 374  | 566  | 264  | 212  | 162  | 92.2 | 73.5 | 119  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 99.8 | 114  | 171  | 368  | 374  | 566  | 264  | 212  | 162  | 92.2 | 73.5 | 119  |
| MAX  | 150  | 175  | 231  | 611  | 537  | 1082 | 379  | 331  | 396  | 123  | 111  | 298  |
| (WY) | 1997 | 1997 | 1997 | 1999 | 1998 | 1997 | 1999 | 1999 | 1997 | 1998 | 1998 | 1997 |
| MIN  | 58.4 | 78.9 | 103  | 90.4 | 175  | 237  | 190  | 105  | 73.0 | 44.6 | 40.6 | 44.8 |
| (WY) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1997 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 78408                  | 37714               |                         |
| ANNUAL MEAN              | 215                    | 103                 | 217                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 304                     |
| LOWEST ANNUAL MEAN       |                        |                     | 103                     |
| HIGHEST DAILY MEAN       | 3040                   | 815                 | 6700                    |
| LOWEST DAILY MEAN        | 45                     | 34                  | 34                      |
| ANNUAL SEVEN-DAY MINIMUM | 46                     | 35                  | 35                      |
| INSTANTANEOUS PEAK FLOW  |                        | 893                 | 9030                    |
| INSTANTANEOUS PEAK STAGE |                        | 6.79                | 10.84                   |
| INSTANTANEOUS LOW FLOW   |                        | 34                  | 34                      |
| 10 PERCENT EXCEEDS       | 384                    | 173                 | 387                     |
| 50 PERCENT EXCEEDS       | 83                     | 75                  | 102                     |
| 90 PERCENT EXCEEDS       | 49                     | 39                  | 52                      |

e Estimated

## 07277700 HICKAHALA CREEK NEAR SENATOBIA, MS

LOCATION.--Lat 34°37'54", long 89°55'30", in SE $\frac{1}{4}$  NW $\frac{1}{4}$  sec.22, T.5 S., R.7 W., Chickasaw Meridian, Tate County, Hydrologic Unit 08030204, on left bank at downstream side of bridge on county road, 1.7 mi east of Senatobia, 1.5 mi upstream from mouth, and 0.9 mi downstream from Basket Creek.

DRAINAGE AREA.--121 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1975, 1987-97, 1999.

## PERIOD OF DAILY RECORD.--

DISCHARGE: February 1986 to current year.  
SPECIFIC CONDUCTANCE: February 1986 to October 1989.  
pH: February 1986 to October 1989.  
WATER TEMPERATURE: February 1986 to October 1989.  
DISSOLVED OXYGEN: February 1986 to October 1989.  
SUSPENDED SEDIMENT CONCENTRATION: February 1986 to current year.  
SUSPENDED SEDIMENT DISCHARGE: February 1986 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 233.02 ft above sea level. September 4, 1942 to February 6, 1986, discharge measurements and gage height record at same site and datum in files of U.S. Army Corps of Engineers, Vicksburg District. Automatic pumping sediment sampler since February 1986.

REMARKS.--Estimated daily discharges: Nov. 24-29, Dec. 16-30. Discharge records good except for estimated daily discharges, which are poor. Satellite telemeter at station. Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office.

AVERAGE DISCHARGE.--14 years, 183 ft<sup>3</sup>/s, 20.49 in/yr.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 19,100 ft<sup>3</sup>/s, Feb. 3, 1990, maximum gage height, 19.91 ft, Feb. 3, 1990; minimum daily mean, 22 ft<sup>3</sup>/s, July 6-11, 1988.  
SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 5,110 mg/L, Feb. 21, 1989; minimum daily mean, 2 mg/L, Oct. 16, 1987.  
SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 118,000 tons, Feb. 3, 1990; minimum daily, 0.15 ton, Oct. 16, 1987.

## EXTREMES OUTSIDE PERIOD OF RECORD.--

DISCHARGE: Flood of June 22, 1947, reached a stage of 20.6 ft, from flood mark (from information by U.S. Army Corps of Engineers).

## EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 5,320 ft<sup>3</sup>/s, Apr. 3, maximum gage height, 12.64 ft, Apr. 3; minimum daily mean, 27 ft<sup>3</sup>/s, Nov. 16.  
SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,310 mg/L, Mar. 16; minimum daily mean, 18 mg/L, Sept. 23-28.  
SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 8,800 tons, Mar. 16; minimum daily, 1.6 tons, Sept. 24.



## YAZOO RIVER BASIN

07277700 HICKAHALA CREEK NEAR SENATOBIA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY     | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|---------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| OCTOBER |                            |                                      | NOVEMBER                            |                            |                                      | DECEMBER                            |                            |                                      |                                     |
| 1       | 43                         | 21                                   | 2.4                                 | 43                         | 26                                   | 3.0                                 | 38                         | 27                                   | 2.8                                 |
| 2       | 41                         | 22                                   | 2.4                                 | 38                         | 23                                   | 2.3                                 | 39                         | 26                                   | 2.7                                 |
| 3       | 40                         | 22                                   | 2.3                                 | 34                         | 24                                   | 2.2                                 | 44                         | 24                                   | 2.9                                 |
| 4       | 40                         | 21                                   | 2.3                                 | 34                         | 23                                   | 2.1                                 | 42                         | 24                                   | 2.7                                 |
| 5       | 41                         | 20                                   | 2.2                                 | 33                         | 22                                   | 2.0                                 | 59                         | 44                                   | 7.2                                 |
| 6       | 41                         | 19                                   | 2.1                                 | 33                         | 22                                   | 1.9                                 | 46                         | 36                                   | 4.5                                 |
| 7       | 40                         | 21                                   | 2.2                                 | 32                         | 21                                   | 1.8                                 | 42                         | 27                                   | 3.0                                 |
| 8       | 38                         | 34                                   | 3.5                                 | 33                         | 21                                   | 1.9                                 | 43                         | 22                                   | 2.6                                 |
| 9       | 77                         | 83                                   | 25                                  | 33                         | 22                                   | 2.0                                 | 43                         | 21                                   | 2.4                                 |
| 10      | 183                        | 180                                  | 100                                 | 34                         | 22                                   | 2.1                                 | 121                        | 119                                  | 44                                  |
| 11      | 49                         | 49                                   | 6.7                                 | 34                         | 23                                   | 2.1                                 | 55                         | 47                                   | 7.1                                 |
| 12      | 38                         | 44                                   | 4.6                                 | 34                         | 23                                   | 2.1                                 | 231                        | 322                                  | 506                                 |
| 13      | 37                         | 39                                   | 3.9                                 | 33                         | 24                                   | 2.1                                 | 325                        | 254                                  | 300                                 |
| 14      | 36                         | 34                                   | 3.4                                 | 30                         | 24                                   | 1.9                                 | 130                        | 63                                   | 23                                  |
| 15      | 37                         | 31                                   | 3.1                                 | 30                         | 23                                   | 1.9                                 | 77                         | 41                                   | 8.5                                 |
| 16      | 35                         | 29                                   | 2.7                                 | 31                         | 23                                   | 2.0                                 | 55                         | 35                                   | 5.2                                 |
| 17      | 35                         | 27                                   | 2.6                                 | 30                         | 23                                   | 1.9                                 | 45                         | 30                                   | 3.6                                 |
| 18      | 35                         | 26                                   | 2.4                                 | 27                         | 24                                   | 1.7                                 | 42                         | 26                                   | 2.9                                 |
| 19      | 36                         | 24                                   | 2.3                                 | 34                         | 24                                   | 2.2                                 | 41                         | 22                                   | 2.4                                 |
| 20      | 35                         | 22                                   | 2.1                                 | 42                         | 24                                   | 2.7                                 | 40                         | 22                                   | 2.4                                 |
| 21      | 34                         | 22                                   | 2.0                                 | 35                         | 24                                   | 2.3                                 | 39                         | 22                                   | 2.4                                 |
| 22      | 33                         | 21                                   | 1.9                                 | 34                         | 22                                   | 2.1                                 | 39                         | 23                                   | 2.4                                 |
| 23      | 33                         | 21                                   | 1.9                                 | 36                         | 21                                   | 2.1                                 | 38                         | 23                                   | 2.4                                 |
| 24      | 34                         | 21                                   | 1.9                                 | 36                         | 24                                   | 2.2                                 | 38                         | 23                                   | 2.4                                 |
| 25      | 35                         | 22                                   | 2.0                                 | 37                         | 26                                   | 2.6                                 | 37                         | 23                                   | 2.3                                 |
| 26      | 33                         | 23                                   | 2.0                                 | 38                         | 30                                   | 3.1                                 | 37                         | 24                                   | 2.4                                 |
| 27      | 33                         | 24                                   | 2.1                                 | 38                         | 32                                   | 3.3                                 | 36                         | 24                                   | 2.3                                 |
| 28      | 36                         | 23                                   | 2.2                                 | 38                         | 26                                   | 2.8                                 | 36                         | 24                                   | 2.3                                 |
| 29      | 32                         | 22                                   | 1.9                                 | 38                         | 23                                   | 2.4                                 | 37                         | 24                                   | 2.4                                 |
| 30      | 31                         | 21                                   | 1.8                                 | 38                         | 28                                   | 3.0                                 | 37                         | 24                                   | 2.4                                 |
| 31      | 31                         | 23                                   | 2.0                                 | ---                        | ---                                  | ---                                 | 46                         | 24                                   | 3.0                                 |
| JANUARY |                            |                                      | FEBRUARY                            |                            |                                      | MARCH                               |                            |                                      |                                     |
| 1       | 35                         | 24                                   | 2.3                                 | 39                         | 27                                   | 2.9                                 | 65                         | 29                                   | 5.1                                 |
| 2       | 33                         | 24                                   | 2.1                                 | 38                         | 26                                   | 2.7                                 | 57                         | 25                                   | 3.9                                 |
| 3       | 35                         | 25                                   | 2.4                                 | 37                         | 27                                   | 2.7                                 | 56                         | 24                                   | 3.7                                 |
| 4       | 41                         | 28                                   | 3.0                                 | 38                         | 27                                   | 2.8                                 | 54                         | 25                                   | 3.7                                 |
| 5       | 36                         | 30                                   | 2.8                                 | 36                         | 28                                   | 2.7                                 | 51                         | 26                                   | 3.5                                 |
| 6       | 35                         | 30                                   | 2.9                                 | 37                         | 25                                   | 2.5                                 | 47                         | 24                                   | 3.1                                 |
| 7       | 36                         | 28                                   | 2.7                                 | 38                         | 22                                   | 2.3                                 | 44                         | 24                                   | 2.8                                 |
| 8       | 39                         | 26                                   | 2.7                                 | 37                         | 21                                   | 2.1                                 | 41                         | 23                                   | 2.6                                 |
| 9       | 38                         | 24                                   | 2.5                                 | 37                         | 21                                   | 2.0                                 | 45                         | 22                                   | 2.7                                 |
| 10      | 35                         | 24                                   | 2.2                                 | 36                         | 20                                   | 1.9                                 | 42                         | 21                                   | 2.4                                 |
| 11      | 34                         | 23                                   | 2.1                                 | 35                         | 20                                   | 1.9                                 | 54                         | 20                                   | 3.0                                 |
| 12      | 34                         | 23                                   | 2.1                                 | 73                         | 143                                  | 36                                  | 45                         | 20                                   | 2.4                                 |
| 13      | 33                         | 22                                   | 2.0                                 | 174                        | 229                                  | 265                                 | 40                         | 20                                   | 2.1                                 |
| 14      | 33                         | 22                                   | 2.0                                 | 219                        | 275                                  | 194                                 | 37                         | 20                                   | 2.0                                 |
| 15      | 34                         | 21                                   | 1.9                                 | 72                         | 74                                   | 15                                  | 41                         | 20                                   | 2.2                                 |
| 16      | 34                         | 20                                   | 1.9                                 | 50                         | 40                                   | 5.5                                 | 1500                       | 1310                                 | 8800                                |
| 17      | 36                         | 22                                   | 2.1                                 | 48                         | 26                                   | 3.4                                 | 287                        | 164                                  | 148                                 |
| 18      | 34                         | 24                                   | 2.2                                 | 47                         | 21                                   | 2.7                                 | 153                        | 63                                   | 26                                  |
| 19      | 35                         | 24                                   | 2.3                                 | 47                         | 19                                   | 2.3                                 | 902                        | 936                                  | 4070                                |
| 20      | 36                         | 24                                   | 2.3                                 | 45                         | 19                                   | 2.3                                 | 533                        | 346                                  | 758                                 |
| 21      | 35                         | 24                                   | 2.2                                 | 42                         | 20                                   | 2.3                                 | 162                        | 121                                  | 54                                  |
| 22      | 42                         | 23                                   | 2.6                                 | 39                         | 22                                   | 2.3                                 | 117                        | 67                                   | 21                                  |
| 23      | 44                         | 22                                   | 2.6                                 | 37                         | 24                                   | 2.4                                 | 99                         | 39                                   | 10                                  |
| 24      | 39                         | 22                                   | 2.3                                 | 40                         | 23                                   | 2.5                                 | 89                         | 34                                   | 8.1                                 |
| 25      | 38                         | 23                                   | 2.3                                 | 35                         | 22                                   | 2.1                                 | 156                        | 124                                  | 90                                  |
| 26      | 38                         | 23                                   | 2.4                                 | 539                        | 657                                  | 2270                                | 164                        | 130                                  | 61                                  |
| 27      | 35                         | 24                                   | 2.3                                 | 549                        | 473                                  | 1090                                | 114                        | 69                                   | 21                                  |
| 28      | 43                         | 24                                   | 2.8                                 | 124                        | 96                                   | 34                                  | 88                         | 44                                   | 11                                  |
| 29      | 41                         | 25                                   | 2.8                                 | 81                         | 44                                   | 9.8                                 | 77                         | 29                                   | 6.1                                 |
| 30      | 42                         | 27                                   | 3.0                                 | ---                        | ---                                  | ---                                 | 74                         | 25                                   | 5.0                                 |
| 31      | 40                         | 30                                   | 3.3                                 | ---                        | ---                                  | ---                                 | 70                         | 24                                   | 4.5                                 |

07277700 HICKAHALA CREEK NEAR SENATOBIA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY   | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| APRIL |                            |                                      | MAY                                 |                            |                                      | JUNE                                |                            |                                      |                                     |
| 1     | 74                         | 34                                   | 8.3                                 | 48                         | 28                                   | 3.7                                 | 39                         | 31                                   | 3.3                                 |
| 2     | 559                        | 386                                  | 603                                 | 56                         | 68                                   | 24                                  | 39                         | 31                                   | 3.2                                 |
| 3     | 1910                       | 792                                  | 5940                                | 459                        | 471                                  | 646                                 | 39                         | 30                                   | 3.1                                 |
| 4     | 381                        | 141                                  | 174                                 | 213                        | 153                                  | 96                                  | 41                         | 27                                   | 3.0                                 |
| 5     | 142                        | 56                                   | 22                                  | 504                        | 584                                  | 1450                                | 42                         | 24                                   | 2.8                                 |
| 6     | 98                         | 45                                   | 12                                  | 311                        | 236                                  | 223                                 | 41                         | 26                                   | 2.8                                 |
| 7     | 77                         | 39                                   | 8.1                                 | 107                        | 70                                   | 21                                  | 41                         | 27                                   | 3.0                                 |
| 8     | 108                        | 96                                   | 29                                  | 68                         | 46                                   | 8.4                                 | 41                         | 29                                   | 3.2                                 |
| 9     | 71                         | 40                                   | 7.8                                 | 57                         | 39                                   | 6.1                                 | 41                         | 30                                   | 3.3                                 |
| 10    | 63                         | 29                                   | 5.0                                 | 55                         | 34                                   | 5.0                                 | 40                         | 28                                   | 3.1                                 |
| 11    | 77                         | 69                                   | 19                                  | 50                         | 25                                   | 3.4                                 | 39                         | 27                                   | 2.8                                 |
| 12    | 123                        | 108                                  | 41                                  | 47                         | 25                                   | 3.2                                 | 38                         | 26                                   | 2.7                                 |
| 13    | 102                        | 46                                   | 12                                  | 44                         | 26                                   | 3.1                                 | 38                         | 27                                   | 2.8                                 |
| 14    | 93                         | 47                                   | 12                                  | 43                         | 25                                   | 2.9                                 | 38                         | 40                                   | 4.1                                 |
| 15    | 74                         | 35                                   | 6.9                                 | 42                         | 25                                   | 2.8                                 | 57                         | 86                                   | 14                                  |
| 16    | 66                         | 26                                   | 4.6                                 | 43                         | 24                                   | 2.7                                 | 39                         | 40                                   | 4.2                                 |
| 17    | 59                         | 24                                   | 3.8                                 | 42                         | 22                                   | 2.5                                 | 69                         | 176                                  | 71                                  |
| 18    | 55                         | 23                                   | 3.4                                 | 41                         | 21                                   | 2.3                                 | 147                        | 357                                  | 196                                 |
| 19    | 52                         | 23                                   | 3.2                                 | 41                         | 20                                   | 2.2                                 | 49                         | 70                                   | 9.4                                 |
| 20    | 53                         | 22                                   | 3.2                                 | 113                        | 151                                  | 107                                 | 43                         | 47                                   | 5.4                                 |
| 21    | 51                         | 22                                   | 3.0                                 | 89                         | 161                                  | 50                                  | 39                         | 40                                   | 4.2                                 |
| 22    | 48                         | 22                                   | 2.8                                 | 46                         | 51                                   | 6.3                                 | 38                         | 36                                   | 3.7                                 |
| 23    | 47                         | 21                                   | 2.7                                 | 42                         | 38                                   | 4.3                                 | 37                         | 32                                   | 3.2                                 |
| 24    | 489                        | 444                                  | 867                                 | 41                         | 35                                   | 3.9                                 | 35                         | 29                                   | 2.8                                 |
| 25    | 134                        | 108                                  | 43                                  | 40                         | 32                                   | 3.5                                 | 32                         | 29                                   | 2.6                                 |
| 26    | 67                         | 44                                   | 8.1                                 | 40                         | 29                                   | 3.2                                 | 34                         | 39                                   | 3.7                                 |
| 27    | 57                         | 34                                   | 5.3                                 | 41                         | 27                                   | 3.0                                 | 89                         | 199                                  | 54                                  |
| 28    | 53                         | 29                                   | 4.2                                 | 43                         | 26                                   | 3.0                                 | 40                         | 46                                   | 5.0                                 |
| 29    | 48                         | 25                                   | 3.2                                 | 41                         | 26                                   | 2.9                                 | 39                         | 29                                   | 3.0                                 |
| 30    | 45                         | 23                                   | 2.8                                 | 42                         | 28                                   | 3.2                                 | 35                         | 24                                   | 2.3                                 |
| 31    | ---                        | ---                                  | ---                                 | 40                         | 30                                   | 3.2                                 | ---                        | ---                                  | ---                                 |
| JULY  |                            |                                      | AUGUST                              |                            |                                      | SEPTEMBER                           |                            |                                      |                                     |
| 1     | 35                         | 24                                   | 2.3                                 | 38                         | 31                                   | 3.2                                 | 35                         | 27                                   | 2.5                                 |
| 2     | 36                         | 25                                   | 2.5                                 | 61                         | 64                                   | 12                                  | 34                         | 31                                   | 2.8                                 |
| 3     | 37                         | 26                                   | 2.5                                 | 39                         | 46                                   | 4.8                                 | 33                         | 35                                   | 3.0                                 |
| 4     | 36                         | 26                                   | 2.5                                 | 36                         | 40                                   | 3.9                                 | 32                         | 38                                   | 3.3                                 |
| 5     | 37                         | 25                                   | 2.5                                 | 40                         | 36                                   | 3.9                                 | 32                         | 33                                   | 2.9                                 |
| 6     | 37                         | 25                                   | 2.5                                 | 36                         | 32                                   | 3.1                                 | 31                         | 27                                   | 2.2                                 |
| 7     | 38                         | 24                                   | 2.5                                 | 34                         | 31                                   | 2.9                                 | 32                         | 24                                   | 2.1                                 |
| 8     | 37                         | 24                                   | 2.4                                 | 34                         | 30                                   | 2.8                                 | 36                         | 23                                   | 2.2                                 |
| 9     | 37                         | 23                                   | 2.3                                 | 35                         | 30                                   | 2.8                                 | 35                         | 21                                   | 2.0                                 |
| 10    | 37                         | 23                                   | 2.3                                 | 36                         | 30                                   | 2.9                                 | 32                         | 20                                   | 1.8                                 |
| 11    | 38                         | 24                                   | 2.5                                 | 51                         | 64                                   | 10                                  | 35                         | 20                                   | 1.9                                 |
| 12    | 37                         | 25                                   | 2.6                                 | 34                         | 29                                   | 2.6                                 | 36                         | 20                                   | 1.9                                 |
| 13    | 37                         | 27                                   | 2.6                                 | 33                         | 27                                   | 2.4                                 | 35                         | 20                                   | 1.9                                 |
| 14    | 37                         | 28                                   | 2.8                                 | 33                         | 25                                   | 2.2                                 | 33                         | 20                                   | 1.8                                 |
| 15    | 38                         | 28                                   | 2.9                                 | 35                         | 26                                   | 2.4                                 | 36                         | 20                                   | 1.9                                 |
| 16    | 38                         | 26                                   | 2.7                                 | 35                         | 26                                   | 2.5                                 | 38                         | 20                                   | 2.0                                 |
| 17    | 38                         | 24                                   | 2.5                                 | 35                         | 27                                   | 2.6                                 | 38                         | 20                                   | 2.0                                 |
| 18    | 39                         | 26                                   | 2.7                                 | 35                         | 28                                   | 2.6                                 | 38                         | 18                                   | 1.9                                 |
| 19    | 37                         | 27                                   | 2.7                                 | 35                         | 25                                   | 2.3                                 | 38                         | 19                                   | 2.0                                 |
| 20    | 36                         | 30                                   | 2.9                                 | 35                         | 22                                   | 2.1                                 | 36                         | 20                                   | 1.9                                 |
| 21    | 39                         | 35                                   | 3.7                                 | 34                         | 22                                   | 2.1                                 | 38                         | 19                                   | 2.0                                 |
| 22    | 39                         | 38                                   | 4.0                                 | 33                         | 23                                   | 2.0                                 | 38                         | 19                                   | 1.9                                 |
| 23    | 39                         | 33                                   | 3.5                                 | 34                         | 23                                   | 2.2                                 | 36                         | 18                                   | 1.7                                 |
| 24    | 38                         | 29                                   | 2.9                                 | 37                         | 24                                   | 2.3                                 | 34                         | 18                                   | 1.6                                 |
| 25    | 38                         | 29                                   | 3.0                                 | 37                         | 25                                   | 2.4                                 | 39                         | 18                                   | 1.9                                 |
| 26    | 38                         | 30                                   | 3.0                                 | 35                         | 29                                   | 2.8                                 | 37                         | 18                                   | 1.8                                 |
| 27    | 37                         | 30                                   | 3.0                                 | 35                         | 35                                   | 3.2                                 | 34                         | 18                                   | 1.7                                 |
| 28    | 36                         | 31                                   | 3.0                                 | 32                         | 33                                   | 2.8                                 | 34                         | 18                                   | 1.7                                 |
| 29    | 35                         | 32                                   | 3.0                                 | 32                         | 29                                   | 2.6                                 | 40                         | 19                                   | 2.0                                 |
| 30    | 40                         | 32                                   | 3.5                                 | 33                         | 27                                   | 2.4                                 | 44                         | 29                                   | 3.5                                 |
| 31    | 37                         | 33                                   | 3.3                                 | 33                         | 25                                   | 2.2                                 | ---                        | ---                                  | ---                                 |

## 07277730 SENATOBIA CREEK NEAR SENATOBIA,

LOCATION.--Lat 34°37'01", Long 89°56'19", in SE1/4 NW1/4 sec. 28, T.5 S., R.7 W., Chickasaw Meridian, Tate County, Hydrologic Unit 08030204, on right bank at upstream side of bridge on State Highway 4, 0.5 mi east of Senatobia, 1.4 mi upstream of Hichahalaw Creek, and 4.1 mi downstream of Nelso Creek.

DRAINAGE AREA.--62.8 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1986 to current year. Sept. 3, 1942, to Dec. 15, 1973, and Oct. 18, 1974 to Oct. 2, 1985, (gage heights and occasional discharge measurements) in reports of U.S. Army Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WDR MS-97-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 233.80 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 1-5, May 7-23, Aug. 21-23, Aug. 27 - Sept. 2 and Sept. 9-30. Records fair except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 28, 1982, reached a stage of 26.10 ft (from information by US Army Corps of Engineers).

EXTREMES FRO CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Mar. 16 | 1215 | *1,740                            | *11.54              |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 1     | e20  | 15   | 12   | 12   | 15   | 28   | 19   | 27   | 14   | 11    | 9.6   | e10   |
| 2     | e17  | 14   | 12   | 12   | 14   | 25   | 519  | 46   | 14   | 11    | 9.9   | e9.8  |
| 3     | e15  | 13   | 14   | 13   | 14   | 25   | 683  | 327  | 14   | 11    | 9.7   | 9.6   |
| 4     | e14  | 13   | 13   | 13   | 14   | 24   | 276  | 128  | 14   | 11    | 9.7   | 9.8   |
| 5     | e14  | 13   | 15   | 12   | 14   | 22   | 65   | 381  | 14   | 11    | 9.7   | 9.7   |
| 6     | 14   | 13   | 13   | 12   | 14   | 22   | 36   | 333  | 14   | 11    | 9.6   | 9.7   |
| 7     | 14   | 13   | 13   | 12   | 14   | 21   | 27   | e45  | 13   | 11    | 9.7   | 10    |
| 8     | 14   | 13   | 13   | 13   | 14   | 19   | 48   | e24  | 13   | 11    | 9.7   | 10    |
| 9     | 17   | 13   | 13   | 13   | 14   | 23   | 25   | e21  | 13   | 11    | 10    | e10   |
| 10    | 16   | 13   | 31   | 13   | 14   | 23   | 26   | e19  | 13   | 11    | 10    | e10   |
| 11    | 14   | 13   | 14   | 13   | 14   | 25   | 28   | e18  | 13   | 11    | 10    | e10   |
| 12    | 14   | 13   | 119  | 12   | 111  | 25   | 39   | e17  | 13   | 11    | 10    | e11   |
| 13    | 14   | 13   | 151  | 12   | 60   | 26   | 56   | e16  | 13   | 11    | 10    | e11   |
| 14    | 14   | 13   | 23   | 12   | 133  | 22   | 46   | e16  | 13   | 11    | 11    | e11   |
| 15    | 14   | 12   | 17   | 13   | 23   | 24   | 31   | e16  | 14   | 11    | 11    | e10   |
| 16    | 15   | 12   | 14   | 13   | 21   | 661  | 26   | e16  | 13   | 11    | 11    | e10   |
| 17    | 15   | 13   | 14   | 13   | 21   | 165  | 24   | e15  | 53   | 10    | 10    | e10   |
| 18    | 15   | 12   | 14   | 13   | 25   | 51   | 21   | e15  | 43   | 11    | 12    | e10   |
| 19    | 15   | 13   | 13   | 13   | 22   | 438  | 19   | e23  | 14   | 10    | 11    | e10   |
| 20    | 14   | 14   | 12   | 13   | 20   | 301  | 18   | e42  | 13   | 10    | 11    | e11   |
| 21    | 14   | 12   | 12   | 13   | 19   | 62   | 17   | e36  | 12   | 10    | e11   | e11   |
| 22    | 15   | 12   | 12   | 15   | 17   | 36   | 18   | e18  | 12   | 10    | e11   | e10   |
| 23    | 14   | 12   | 12   | 17   | 15   | 28   | 18   | e16  | 12   | 11    | e16   | e10   |
| 24    | 14   | 12   | 12   | 15   | 15   | 24   | 390  | 16   | 12   | 10    | 14    | e10   |
| 25    | 14   | 13   | 12   | 14   | 15   | 29   | 75   | 16   | 11   | 9.9   | 14    | e10   |
| 26    | 14   | 12   | 12   | 14   | 189  | 33   | 38   | 16   | 11   | 9.7   | 15    | e10   |
| 27    | 14   | 12   | 12   | 14   | 279  | 28   | 34   | 16   | 13   | 9.6   | e11   | e10   |
| 28    | 13   | 12   | 12   | 17   | 43   | 23   | 29   | 16   | 12   | 9.6   | e11   | e10   |
| 29    | 13   | 12   | 12   | 14   | 31   | 20   | 25   | 15   | 12   | 9.8   | e11   | e11   |
| 30    | 13   | 12   | 12   | 15   | ---  | 20   | 24   | 15   | 11   | 11    | e10   | e13   |
| 31    | 13   | ---  | 12   | 15   | ---  | 19   | ---  | 14   | ---  | 9.6   | e10   | ---   |
| TOTAL | 450  | 382  | 672  | 415  | 1214 | 2292 | 2700 | 1739 | 456  | 327.2 | 338.6 | 307.6 |
| MEAN  | 14.5 | 12.7 | 21.7 | 13.4 | 41.9 | 73.9 | 90.0 | 56.1 | 15.2 | 10.6  | 10.9  | 10.3  |
| MAX   | 20   | 15   | 151  | 17   | 279  | 661  | 683  | 381  | 53   | 11    | 16    | 13    |
| MIN   | 13   | 12   | 12   | 12   | 14   | 19   | 17   | 14   | 11   | 9.6   | 9.6   | 9.6   |
| MED   | 14   | 13   | 13   | 13   | 17   | 25   | 28   | 17   | 13   | 11    | 10    | 10    |
| AC-FT | 893  | 758  | 1330 | 823  | 2410 | 4550 | 5360 | 3450 | 904  | 649   | 672   | 610   |
| CFSM  | .18  | .16  | .26  | .16  | .51  | .90  | 1.10 | .68  | .19  | .13   | .13   | .13   |
| IN.   | .20  | .17  | .30  | .19  | .55  | 1.04 | 1.22 | .79  | .21  | .15   | .15   | .14   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2000, BY WATER YEAR (WY)

|      | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 15.2 | 63.1 | 137  | 139  | 172  | 148  | 116  | 63.5 | 104  | 59.3 | 27.1 | 28.5 |      |      |      |
| MAX  | 27.8 | 219  | 370  | 391  | 472  | 305  | 668  | 227  | 457  | 331  | 72.1 | 98.1 |      |      |      |
| (WY) | 1997 | 1987 | 1991 | 1989 | 1990 | 1994 | 1991 | 1991 | 1989 | 1989 | 1993 | 1997 |      |      |      |
| MIN  | 10.6 | 12.6 | 21.7 | 13.4 | 32.2 | 24.5 | 11.4 | 8.54 | 8.85 | 8.75 | 9.47 | 7.63 |      |      |      |
| (WY) | 1988 | 1999 | 2000 | 2000 | 1996 | 1986 | 1986 | 1986 | 1988 | 1986 | 1988 | 1987 |      |      |      |

SUMMARY STATISTICS

|                          | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1986 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 25079                  | 11293.4             |                         |
| ANNUAL MEAN              | 68.7                   | 30.9                | 90.5                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 175                     |
| LOWEST ANNUAL MEAN       |                        |                     | 30.9                    |
| HIGHEST DAILY MEAN       | 2230                   | 683                 | 5890                    |
| LOWEST DAILY MEAN        | 10                     | 9.6                 | 7.2                     |
| ANNUAL SEVEN-DAY MINIMUM | 10                     | 9.7                 | 7.3                     |
| INSTANTANEOUS PEAK FLOW  |                        | 1740                | 12700                   |
| INSTANTANEOUS PEAK STAGE |                        | 11.54               | 19.55                   |
| INSTANTANEOUS LOW FLOW   |                        | 8.9                 | 7.1                     |
| ANNUAL RUNOFF (AC-FT)    | 49740                  | 22400               | 65580                   |
| ANNUAL RUNOFF (CFSM)     | .84                    | .38                 | 1.10                    |
| ANNUAL RUNOFF (INCHES)   | 11.38                  | 5.12                | 15.00                   |
| 10 PERCENT EXCEEDS       | 122                    | 36                  | 130                     |
| 50 PERCENT EXCEEDS       | 17                     | 14                  | 17                      |
| 90 PERCENT EXCEEDS       | 12                     | 10                  | 9.9                     |

e Estimated

a Also occurred on Aug. 5, 6 and Sept. 3, but may have been lower during period of estimated discharge.

## 07280400 TILLATOBA CREEK AT CHARLESTON, MS

LOCATION.--Lat 34°00'02", long 90°03'46", in SW1/4 SW1/4 sec.26, T.25 N., R.2 E., Choctaw Meridian, Tallahatchie County, Hydrologic Unit 08030202, County code 135, at State Highway 35 at Charleston, MS.

DRAINAGE AREA.--118 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 151.025 ft above sea level (Mississippi Department of Transportation datum).

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|------|-------|------|------|-------|-------|-------|
| 1     | 11    | 28   | 14   | 22   | 51   | 66   | 166   | 37   | 24   | 19    | 12    | 8.8   |
| 2     | 10    | 17   | 14   | 22   | 45   | 60   | 4640  | 37   | 23   | 16    | 13    | 8.2   |
| 3     | 10    | 13   | 17   | 148  | 40   | 57   | 4290  | 210  | 25   | 15    | 11    | 8.1   |
| 4     | 10    | 13   | 15   | 202  | 37   | 54   | 1330  | 60   | 42   | 14    | 10    | 8.1   |
| 5     | 9.9   | 12   | 21   | 47   | 34   | 52   | 606   | 42   | 90   | 13    | 10    | 8.0   |
| 6     | 9.6   | 12   | 24   | 35   | 33   | 51   | 404   | 40   | 44   | 12    | 10    | 8.5   |
| 7     | 9.7   | 12   | 17   | 31   | 33   | 50   | 297   | 35   | 30   | 12    | 10    | 8.7   |
| 8     | 10    | 13   | 16   | 32   | 33   | 49   | 405   | 32   | 26   | 11    | 9.9   | 9.4   |
| 9     | 20    | 13   | 18   | 82   | 31   | 96   | 197   | 31   | 24   | 11    | 9.8   | 9.5   |
| 10    | 19    | 13   | 52   | 54   | 31   | 90   | 156   | 79   | 22   | 11    | 10    | 9.4   |
| 11    | 14    | 13   | 26   | 37   | 31   | 257  | 131   | 41   | 20   | 11    | 11    | 9.7   |
| 12    | 12    | 13   | 33   | 32   | 30   | 120  | 115   | 34   | 17   | 11    | 9.0   | 9.8   |
| 13    | 11    | 13   | 135  | 34   | 59   | 80   | 152   | 31   | 16   | 11    | 9.1   | 11    |
| 14    | 11    | 13   | 53   | 33   | 119  | 67   | 123   | 29   | 16   | 11    | 8.9   | 9.1   |
| 15    | 11    | 13   | 35   | 29   | 48   | 64   | 95    | 28   | 17   | 11    | 9.1   | 8.4   |
| 16    | 11    | 13   | 30   | 29   | 39   | 261  | 83    | 28   | 17   | 11    | 9.0   | 7.8   |
| 17    | 11    | 13   | 27   | 29   | 929  | 213  | 72    | 27   | 33   | 11    | 8.9   | 7.5   |
| 18    | 11    | 13   | 25   | 29   | 490  | 103  | 63    | 26   | 76   | 11    | 8.5   | 7.5   |
| 19    | 11    | 13   | 24   | 29   | 395  | 980  | 59    | 26   | 36   | 11    | 8.4   | 7.6   |
| 20    | 11    | 21   | 24   | 31   | 171  | 581  | 53    | 26   | 22   | 11    | 8.3   | 7.8   |
| 21    | 11    | 21   | 26   | 40   | 115  | 226  | 54    | 27   | 19   | 11    | 8.3   | 8.1   |
| 22    | 11    | 22   | 26   | 45   | 90   | 139  | 51    | 26   | 24   | 11    | 8.1   | 7.6   |
| 23    | 11    | 22   | 24   | 63   | 77   | 106  | 48    | 25   | 19   | 11    | 8.1   | 7.6   |
| 24    | 11    | 21   | 24   | 44   | 69   | 89   | 187   | 25   | 17   | 11    | 8.1   | 7.8   |
| 25    | 11    | 21   | 23   | 35   | 64   | 78   | 83    | 24   | 16   | 10    | 8.3   | 7.8   |
| 26    | 11    | 21   | 23   | 32   | 69   | 75   | 56    | 24   | 14   | 10    | 8.8   | 7.7   |
| 27    | 11    | 20   | 23   | 31   | 223  | 530  | 48    | 24   | 15   | 9.9   | 9.0   | 7.4   |
| 28    | 11    | 19   | 23   | 38   | 99   | 141  | 44    | 43   | 15   | 9.8   | 8.2   | 7.3   |
| 29    | 11    | 17   | 24   | 61   | 75   | 89   | 41    | 30   | 103  | 9.7   | 8.3   | 6.9   |
| 30    | 11    | 14   | 23   | 87   | ---  | 76   | 39    | 26   | 30   | 23    | 8.2   | 6.9   |
| 31    | 11    | ---  | 23   | 71   | ---  | 67   | ---   | 24   | ---  | 15    | 8.1   | ---   |
| TOTAL | 354.2 | 482  | 882  | 1534 | 3560 | 4967 | 14088 | 1197 | 892  | 375.4 | 287.4 | 248.0 |
| MEAN  | 11.4  | 16.1 | 28.5 | 49.5 | 123  | 160  | 470   | 38.6 | 29.7 | 12.1  | 9.27  | 8.27  |
| MAX   | 20    | 28   | 135  | 202  | 929  | 980  | 4640  | 210  | 103  | 23    | 13    | 11    |
| MIN   | 9.6   | 12   | 14   | 22   | 30   | 49   | 39    | 24   | 14   | 9.7   | 8.1   | 6.9   |
| MED   | 11    | 13   | 24   | 35   | 59   | 89   | 105   | 29   | 22   | 11    | 9.0   | 8.1   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

|      | MEAN | 37.6 | 51.6 | 126  | 337  | 265  | 366  | 324  | 165  | 175  | 46.7 | 20.0 | 34.5 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 97.5 | 131  | 238  | 514  | 525  | 584  | 470  | 376  | 548  | 91.2 | 33.2 | 99.3 |      |
| (WY) | 1998 | 1997 | 1997 | 1997 | 1997 | 1997 | 2000 | 1997 | 1997 | 1997 | 1997 | 1997 | 1997 |
| MIN  | 11.4 | 16.1 | 28.5 | 49.5 | 113  | 160  | 149  | 38.6 | 29.7 | 12.1 | 9.27 | 8.27 |      |
| (WY) | 2000 | 2000 | 2000 | 2000 | 1999 | 2000 | 1997 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1997 - 2000

|                          |         |         |       |
|--------------------------|---------|---------|-------|
| ANNUAL TOTAL             | 50454.2 | 28867.0 |       |
| ANNUAL MEAN              | 138     | 78.9    |       |
| HIGHEST ANNUAL MEAN      |         |         | 162   |
| LOWEST ANNUAL MEAN       |         |         | 275   |
| HIGHEST DAILY MEAN       | 3790    | Apr 6   | 4640  |
| LOWEST DAILY MEAN        | 9.6     | Oct 6   | 6.9   |
| ANNUAL SEVEN-DAY MINIMUM | 9.9     | Oct 2   | 7.4   |
| INSTANTANEOUS PEAK FLOW  |         |         | 8560  |
| INSTANTANEOUS PEAK STAGE |         |         | 20.74 |
| INSTANTANEOUS LOW FLOW   |         |         | 6.9   |
| 10 PERCENT EXCEEDS       | 301     |         | 109   |
| 50 PERCENT EXCEEDS       | 29      |         | 23    |
| 90 PERCENT EXCEEDS       | 11      |         | 8.9   |

## YAZOO RIVER BASIN

07281600 TALLAHATCHIE RIVER AT MONEY, MS

LOCATION.--Lat 33°39'05", long 90°12'39", in NW1/4 SE1/4 sec.29, T.21 N., R.1 E., Choctaw Meridian, Leflore County, Hydrologic Unit 08030202, County code 83, at county road bridge at Money, Ms, about 9 mi north of Greenwood, MS, 193 mi above confluence at Vicksburg.

DRAINAGE AREA.--5,221 mi<sup>2</sup>, U.S. Army Corps of Engineers

PERIOD OF RECORD.--October 1995 to current year. Jan. 22, 1948 to date, stage data available; March 1934 to date; measured discharge available in U.S. Army Corps of Engineers records.

GAGE.--Water-stage recorder. Datum of gage is 98.98 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN   | FEB   | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP    |
|-------|--------|--------|--------|-------|-------|--------|--------|--------|-------|-------|-------|--------|
| 1     | 4060   | 4410   | 3930   | 1590  | 1400  | 5590   | 4340   | 2350   | 1770  | 3520  | 1400  | 3710   |
| 2     | 4210   | 4420   | 3600   | 1710  | 1380  | 5110   | 8810   | 2260   | 1730  | 3260  | 1410  | 3860   |
| 3     | 4370   | 4380   | 3080   | 1840  | 1240  | 4440   | 12800  | 2440   | 1820  | 2990  | 2120  | 3650   |
| 4     | 4440   | 4310   | 2570   | 2020  | 1130  | 3790   | 14900  | 2980   | 2420  | 2690  | 2410  | 3560   |
| 5     | 4370   | 4250   | 2100   | 2160  | 1050  | 3250   | 16100  | 3800   | 2980  | 2420  | 2410  | 3540   |
| 6     | 4250   | 4210   | 1690   | 2000  | 937   | 2840   | 16600  | 5040   | 3030  | 2180  | 2400  | 3540   |
| 7     | 4140   | 4180   | 1430   | 1900  | 887   | 2540   | 16400  | 6320   | 2830  | 1940  | 2380  | 3550   |
| 8     | 4060   | 4150   | 1270   | 1880  | 954   | 2320   | 16000  | 6910   | 2510  | 1720  | 2380  | 3580   |
| 9     | 4100   | 4120   | 1180   | 2000  | 1020  | 2170   | 15400  | 7140   | 2220  | 1530  | 2370  | 3620   |
| 10    | 4170   | 4130   | 1250   | 2140  | 934   | 2250   | 14300  | 7090   | 1990  | 1370  | 2340  | 3630   |
| 11    | 4350   | 4270   | 1420   | 2220  | 876   | 2500   | 12900  | 6810   | 1810  | 1260  | 2280  | 3640   |
| 12    | 4430   | 4390   | 1730   | 2170  | 923   | 2810   | 11200  | 6270   | 1690  | 1190  | 2280  | 3680   |
| 13    | 4340   | 4450   | 2320   | 2140  | 883   | 2730   | 10300  | 5590   | 1610  | 1140  | 2230  | 3710   |
| 14    | 4180   | 4470   | 4530   | 2120  | 1020  | 2410   | 9430   | 4860   | 1470  | 1130  | 2220  | 3700   |
| 15    | 4030   | 4450   | 5580   | 2040  | 2240  | 2190   | 8700   | 4180   | 1250  | 1120  | 2230  | 3650   |
| 16    | 3940   | 4410   | 6070   | 1950  | 2870  | 2330   | 7810   | 3610   | 1220  | 1110  | 2240  | 3610   |
| 17    | 3890   | 4370   | 6280   | 1780  | 2600  | 5170   | 6800   | 3150   | 1260  | 1120  | 2230  | 3580   |
| 18    | 3850   | 4330   | 6250   | 1600  | 3120  | 7360   | 5850   | 2830   | 1510  | 1120  | 2220  | 3550   |
| 19    | 3820   | 4280   | 6090   | 1520  | 3290  | 8540   | 5050   | 2600   | 2500  | 1110  | 2220  | 3500   |
| 20    | 3810   | 4330   | 5730   | 1420  | 3010  | 9830   | 4420   | 2410   | 2290  | 1120  | 2220  | 3400   |
| 21    | 3790   | 4440   | 5330   | 1100  | 2700  | 10300  | 3890   | 2270   | 1890  | 1080  | 2220  | 3430   |
| 22    | 3770   | 4470   | 4950   | 820   | 2430  | 10100  | 3410   | 2170   | 1690  | 1050  | 2210  | 3470   |
| 23    | 3750   | 4430   | 4600   | 784   | 2150  | 9680   | 3040   | 2090   | 1600  | 1060  | 2220  | 3460   |
| 24    | 3730   | 4370   | 4320   | 869   | 1920  | 9010   | 2930   | 2020   | 1470  | 1090  | 2230  | 3440   |
| 25    | 3700   | 4320   | 3900   | 912   | 1720  | 8180   | 4550   | 1950   | 1330  | 1150  | 2190  | 3440   |
| 26    | 3690   | 4270   | 3350   | 839   | 1600  | 7330   | 4830   | 1890   | 1230  | 1130  | 2150  | 3430   |
| 27    | 3690   | 4220   | 2970   | 777   | 1970  | 6810   | 4030   | 1840   | 1310  | 1090  | 2140  | 3420   |
| 28    | 3730   | 4160   | 2810   | 799   | 4640  | 6940   | 3270   | 1940   | 2440  | 1080  | 2130  | 3380   |
| 29    | 3950   | 4100   | 2700   | 865   | 5580  | 6550   | 2810   | 1970   | 3320  | 1080  | 2130  | 2990   |
| 30    | 4210   | 4050   | 2380   | 995   | ---   | 5830   | 2530   | 1910   | 3700  | 1160  | 2250  | 2380   |
| 31    | 4290   | ---    | 1880   | 1160  | ---   | 5050   | ---    | 1830   | ---   | 1300  | 3050  | ---    |
| TOTAL | 125110 | 129140 | 107290 | 48120 | 56474 | 165950 | 253400 | 110520 | 59890 | 47310 | 68910 | 105100 |
| MEAN  | 4036   | 4305   | 3461   | 1552  | 1947  | 5353   | 8447   | 3565   | 1996  | 1526  | 2223  | 3503   |
| MAX   | 4440   | 4470   | 6280   | 2220  | 5580  | 10300  | 16600  | 7140   | 3700  | 3520  | 3050  | 3860   |
| MIN   | 3690   | 4050   | 1180   | 777   | 876   | 2170   | 2530   | 1830   | 1220  | 1050  | 1400  | 2380   |
| CFSM  | .77    | .82    | .66    | .30   | .37   | 1.03   | 1.62   | .68    | .38   | .29   | .43   | .67    |
| IN.   | .89    | .92    | .76    | .34   | .40   | 1.18   | 1.81   | .79    | .43   | .34   | .49   | .75    |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

|      | MEAN | 5885 | 6625  | 7327  | 10340 | 10890 | 10580 | 8171 | 6021  | 5657 | 4401 | 5061 | 5672 |
|------|------|------|-------|-------|-------|-------|-------|------|-------|------|------|------|------|
| MAX  | 9356 | 9093 | 12990 | 14900 | 16680 | 15530 | 10410 | 9213 | 11980 | 9228 | 8869 | 8750 |      |
| (WY) | 1998 | 1997 | 1997  | 1997  | 1997  | 1997  | 1999  | 1997 | 1997  | 1997 | 1997 | 1997 |      |
| MIN  | 3474 | 4305 | 3461  | 1552  | 1947  | 5353  | 6184  | 2410 | 1996  | 1526 | 2223 | 3503 |      |
| (WY) | 1999 | 2000 | 2000  | 2000  | 2000  | 2000  | 1998  | 1996 | 2000  | 2000 | 2000 | 2000 |      |

## SUMMARY STATISTICS

|                          | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1995 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 2615890                | 1277214             | 7201                    |
| ANNUAL MEAN              | 7167                   | 3490                | 11130                   |
| HIGHEST ANNUAL MEAN      |                        |                     | 3490                    |
| LOWEST ANNUAL MEAN       |                        |                     | 18900                   |
| HIGHEST DAILY MEAN       | 15200                  | Feb 1               | 16600                   |
| LOWEST DAILY MEAN        | 1180                   | Dec 9               | 777                     |
| ANNUAL SEVEN-DAY MINIMUM | 1420                   | Dec 6               | 829                     |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 16600                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 31.98                   |
| INSTANTANEOUS LOW FLOW   |                        |                     | 760                     |
| ANNUAL RUNOFF (CFSM)     | 1.37                   | .67                 | 1.38                    |
| ANNUAL RUNOFF (INCHES)   | 18.64                  | 9.10                | 18.74                   |
| 10 PERCENT EXCEEDS       | 13100                  | 6140                | 13500                   |
| 50 PERCENT EXCEEDS       | 5400                   | 2850                | 6480                    |
| 90 PERCENT EXCEEDS       | 3820                   | 1140                | 2240                    |

## 07281960 YALOBUSHA RIVER AT VARDAMAN, MS

LOCATION.--Lat 33° 51' 58", long 89° 10' 23", in NE1/4 NE1/4 sec. 15, T. 14 S., R. 1E., Choctaw Meridian, Calhoun County, Hydrologic Unit 08030205, at downstream side of bridge on State Highway 341, 0.8 mi south of Vardaman, 1.1 mi upstream of Cane Creek, and 6.0 mi north of Atlanta.

DRAINAGE AREA.--86.3 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 267.42 ft above sea level (levels by Mississippi Department of Transportation).

REMARKS.--No estimated daily discharges. Records fair.

| DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000 |       |       |         |         |        |        |         |        |        |        |       |       |
|-----------------------------------------------------------------------------|-------|-------|---------|---------|--------|--------|---------|--------|--------|--------|-------|-------|
| DAILY MEAN VALUES                                                           |       |       |         |         |        |        |         |        |        |        |       |       |
| DAY                                                                         | OCT   | NOV   | DEC     | JAN     | FEB    | MAR    | APR     | MAY    | JUN    | JUL    | AUG   | SEP   |
| 1                                                                           | .22   | .072  | .40     | .082    | 21     | 12     | 130     | .84    | .41    | 4.4    | .000  | .000  |
| 2                                                                           | .12   | .025  | .25     | .061    | 12     | 7.9    | 5950    | 1.2    | .24    | 2.2    | .000  | .000  |
| 3                                                                           | .095  | .040  | .22     | .44     | 7.9    | 6.1    | 6350    | 1.5    | 6.4    | 1.1    | .000  | .000  |
| 4                                                                           | .073  | .040  | .22     | 3.1     | 5.5    | 5.1    | 2840    | 1.9    | 44     | .55    | .000  | .000  |
| 5                                                                           | .046  | .046  | .92     | .72     | 4.0    | 3.8    | 480     | 1.8    | 37     | .34    | .000  | .000  |
| 6                                                                           | .025  | .053  | .95     | .29     | 2.9    | 2.8    | 92      | .94    | 27     | .23    | .000  | .000  |
| 7                                                                           | .017  | .026  | .66     | .18     | 2.6    | 2.3    | 41      | .68    | 8.1    | .15    | .000  | .000  |
| 8                                                                           | .019  | .019  | .51     | .56     | 1.8    | 1.9    | 248     | .60    | 2.5    | .085   | .000  | .000  |
| 9                                                                           | .62   | .061  | .60     | 59      | 1.4    | 8.3    | 103     | .57    | 1.5    | .059   | .000  | .000  |
| 10                                                                          | .83   | .090  | 4.0     | 38      | 1.1    | 129    | 39      | 2.3    | .52    | 1.6    | .000  | .000  |
| 11                                                                          | .45   | .097  | .66     | 8.8     | .83    | 554    | 24      | .79    | .47    | .50    | .000  | .000  |
| 12                                                                          | .28   | .075  | .28     | 3.2     | .92    | 154    | 19      | .66    | .47    | .27    | .000  | .000  |
| 13                                                                          | .46   | .11   | 116     | 5.6     | 3.3    | 36     | 1110    | .54    | .38    | .093   | .000  | .007  |
| 14                                                                          | .45   | .093  | 20      | 2.2     | 31     | 18     | 693     | .43    | .33    | .051   | .000  | .003  |
| 15                                                                          | .29   | .063  | 4.0     | .68     | 22     | 12     | 157     | 1.8    | .31    | .023   | .000  | .002  |
| 16                                                                          | .32   | .089  | 1.2     | .43     | 11     | 15     | 53      | .42    | 3.0    | .012   | .000  | .001  |
| 17                                                                          | .17   | .16   | .42     | .60     | 7.9    | 32     | 25      | .22    | 87     | .008   | .000  | .000  |
| 18                                                                          | .12   | .17   | .30     | .34     | 45     | 17     | 14      | .18    | 163    | .006   | .000  | .000  |
| 19                                                                          | .099  | .20   | .22     | .36     | 98     | 2020   | 13      | .17    | 76     | .005   | .000  | .000  |
| 20                                                                          | .082  | .54   | .20     | .27     | 27     | 1050   | 9.6     | .20    | 24     | .003   | .000  | .000  |
| 21                                                                          | .059  | .13   | .77     | .21     | 12     | 293    | 5.2     | .23    | 13     | .002   | .000  | .014  |
| 22                                                                          | .047  | .10   | .45     | .40     | 7.9    | 64     | 3.6     | .19    | 87     | .001   | .000  | .004  |
| 23                                                                          | .037  | .11   | .36     | 5.2     | 5.9    | 28     | 2.7     | .14    | 20     | .000   | .000  | .003  |
| 24                                                                          | .031  | .22   | .13     | 5.1     | 4.3    | 17     | 4.7     | .23    | 8.6    | .000   | .000  | .004  |
| 25                                                                          | .028  | .32   | .10     | 2.0     | 3.5    | 15     | 3.6     | 16     | 4.8    | .000   | .000  | .003  |
| 26                                                                          | .022  | .39   | .061    | 1.1     | 11     | 20     | 2.7     | 36     | 2.4    | .000   | .000  | .002  |
| 27                                                                          | .017  | .23   | .18     | .88     | 234    | 82     | 1.7     | 5.1    | 9.0    | .000   | .000  | .001  |
| 28                                                                          | .018  | .18   | .26     | 7.3     | 62     | 52     | 1.7     | 18     | 12     | .000   | .000  | .001  |
| 29                                                                          | .029  | .13   | .091    | 150     | 24     | 20     | 1.2     | 5.9    | 18     | .000   | .000  | .001  |
| 30                                                                          | .032  | .43   | .20     | 131     | ---    | 17     | 1.1     | 1.8    | 8.6    | .000   | .000  | .000  |
| 31                                                                          | .015  | ---   | .16     | 49      | ---    | 11     | ---     | .72    | ---    | .000   | .000  | ---   |
| TOTAL                                                                       | 5.121 | 4.309 | 182.492 | 477.103 | 671.75 | 4706.2 | 18418.8 | 102.05 | 666.03 | 11.688 | 0.000 | 0.046 |
| MEAN                                                                        | .17   | .14   | 5.89    | 15.4    | 23.2   | 152    | 614     | 3.29   | 22.2   | .38    | .000  | .002  |
| MAX                                                                         | .83   | .54   | 116     | 150     | 234    | 2020   | 6350    | 36     | 163    | 4.4    | .000  | .014  |
| MIN                                                                         | .015  | .019  | .061    | .061    | .83    | 1.9    | 1.1     | .14    | .24    | .000   | .000  | .000  |
| MED                                                                         | .073  | .098  | .40     | .88     | 7.9    | 17     | 24      | .72    | 8.4    | .012   | .000  | .000  |
| CFSM                                                                        | .00   | .00   | .07     | .18     | .27    | 1.76   | 7.11    | .04    | .26    | .00    | .00   | .00   |
| IN.                                                                         | .00   | .00   | .08     | .21     | .29    | 2.03   | 7.94    | .04    | .29    | .01    | .00   | .00   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

|      | 1998 | 1999 | 2000 | 1998 | 1999 | 2000 | 1998 | 1999 | 2000 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 3.41 | 13.1 | 180  | 314  | 60.8 | 210  | 437  | 26.1 | 178  | 31.4 | 27.6 | .60  |
| MAX  | 6.65 | 26.0 | 354  | 613  | 99.8 | 267  | 614  | 48.9 | 492  | 78.7 | 72.6 | 1.68 |
| (WY) | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 | 2000 | 1999 | 1999 | 1999 | 1998 | 1999 |
| MIN  | .17  | .14  | 5.89 | 15.4 | 23.2 | 152  | 261  | 3.29 | 19.3 | .38  | .000 | .001 |
| (WY) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1999 | 2000 | 1998 | 2000 | 2000 | 2000 |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1998 - 2000

|                          |             |             |                   |
|--------------------------|-------------|-------------|-------------------|
| ANNUAL TOTAL             | 57184.101   | 25245.589   |                   |
| ANNUAL MEAN              | 157         | 69.0        | 129               |
| HIGHEST ANNUAL MEAN      |             |             | 189               |
| LOWEST ANNUAL MEAN       |             |             | 69.0              |
| HIGHEST DAILY MEAN       | 5950 Jan 23 | 6350 Apr 3  | 6350 Apr 3        |
| LOWEST DAILY MEAN        | .015 Oct 31 | .000 Jul 23 | .000 Jul 4 1998   |
| ANNUAL SEVEN-DAY MINIMUM | .02 Oct 25  | .00 Jul 23  | .00 Jul 19 2000   |
| INSTANTANEOUS PEAK FLOW  |             | 6710 Apr 3  | 6710 Apr 3 2000   |
| INSTANTANEOUS PEAK STAGE |             | 29.69 Apr 3 | 29.93 Jun 28 1999 |
| INSTANTANEOUS LOW FLOW   |             |             | .00 Jul 2 1998    |
| ANNUAL RUNOFF (CFSM)     | 1.82        | .80         | 1.49              |
| ANNUAL RUNOFF (INCHES)   | 24.65       | 10.88       | 20.29             |
| 10 PERCENT EXCEEDS       | 484         | 40          | 171               |
| 50 PERCENT EXCEEDS       | 6.2         | .44         | 2.2               |
| 90 PERCENT EXCEEDS       | .09         | .00         | .01               |



07281977 YALOBUSHA RIVER NEAR DERMA, MS

LOCATION.--Lat 33°50'16", long 89°16'33", in NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec.26, T.14 S., R.1 W., Chickasaw Meridian, Calhoun County, Hydrologic Unit 08030205, on the right bank at downstream side of bridge on county road, 1.3 mi south of Derma, and 2.4 mi upstream of 07282000 Yalobusha River at Calhoun City.

DRAINAGE AREA.--160 mi<sup>2</sup>.

PERIOD OF RECORD.--Water year 1999.

PERIOD OF DAILY RECORD.--

DISCHARGE: May 1998 to current year.

SUSPENDED SEDIMENT CONCENTRATION: May 1998 to current year.

SUSPENDED SEDIMENT DISCHARGE: May 1998 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 226.02 ft above sea level.

REMARKS.--Estimated daily discharge: Aug. 27-30, Sept. 7. Discharge records fair except for estimated daily discharges, which are poor. Satellite telemeter at station. Channel rectification was completed in 1967.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 15,900 ft<sup>3</sup>/s, Jan. 23, 1999; minimum daily mean, 0.00 ft<sup>3</sup>/s, Aug. 30-Sept. 6, 2000.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,210 mg/L, May 29, 1998; minimum daily mean, 24 mg/L, Sept. 3, 1999.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 17,000 tons, Jan. 22, 1999; minimum daily, 0.00 ton, Aug. 27-Sept. 6, 2000.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 12,100 ft<sup>3</sup>/s, Apr. 2, maximum gage height, 30.05 ft, Apr. 2; minimum daily mean, 0.00 ft<sup>3</sup>/s, Aug. 30-Sept. 6.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 866 mg/L, Mar. 19; minimum daily mean, 33 mg/L, Feb. 9.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 16,400 tons, Apr. 2; minimum daily, 0.00 ton, Aug. 27-Sept. 6.

07281977 YALOBUSHA RIVER NEAR DERMA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY     | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|---------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| OCTOBER |                            |                                      | NOVEMBER                            |                            |                                      | DECEMBER                            |                            |                                      |                                     |
| 1       | 2.7                        | 48                                   | .35                                 | 1.7                        | 47                                   | .21                                 | 2.3                        | 39                                   | .25                                 |
| 2       | 2.4                        | 41                                   | .27                                 | 2.2                        | 67                                   | .40                                 | 2.3                        | 40                                   | .24                                 |
| 3       | 2.2                        | 42                                   | .25                                 | 2.2                        | 51                                   | .30                                 | 2.3                        | 42                                   | .25                                 |
| 4       | 2.1                        | 42                                   | .24                                 | 2.1                        | 48                                   | .27                                 | 2.3                        | 43                                   | .26                                 |
| 5       | 2.0                        | 54                                   | .30                                 | 2.0                        | 49                                   | .26                                 | 2.6                        | 43                                   | .31                                 |
| 6       | 1.9                        | 47                                   | .24                                 | 1.9                        | 49                                   | .25                                 | 3.1                        | 44                                   | .37                                 |
| 7       | 1.8                        | 47                                   | .23                                 | 1.9                        | 49                                   | .25                                 | 3.1                        | 50                                   | .42                                 |
| 8       | 1.7                        | 51                                   | .24                                 | 1.9                        | 49                                   | .25                                 | 2.9                        | 56                                   | .44                                 |
| 9       | 3.0                        | 56                                   | .46                                 | 1.8                        | 52                                   | .26                                 | 3.2                        | 59                                   | .60                                 |
| 10      | 3.8                        | 62                                   | .64                                 | 1.8                        | 56                                   | .27                                 | 31                         | 342                                  | 35                                  |
| 11      | 3.4                        | 69                                   | .63                                 | 1.8                        | 58                                   | .28                                 | 9.1                        | 80                                   | 2.0                                 |
| 12      | 2.9                        | 101                                  | .79                                 | 1.7                        | 59                                   | .28                                 | 24                         | 136                                  | 29                                  |
| 13      | 2.6                        | 142                                  | .98                                 | 1.7                        | 55                                   | .26                                 | 171                        | 490                                  | 282                                 |
| 14      | 2.3                        | 104                                  | .64                                 | 1.7                        | 49                                   | .23                                 | 28                         | 226                                  | 18                                  |
| 15      | 2.1                        | 70                                   | .39                                 | 1.7                        | 45                                   | .21                                 | 12                         | 170                                  | 5.5                                 |
| 16      | 1.9                        | 65                                   | .33                                 | 1.7                        | 48                                   | .22                                 | 6.4                        | 96                                   | 1.7                                 |
| 17      | 1.8                        | 68                                   | .32                                 | 1.7                        | 53                                   | .24                                 | 4.7                        | 67                                   | .85                                 |
| 18      | 1.6                        | 70                                   | .31                                 | 1.7                        | 51                                   | .23                                 | 4.0                        | 55                                   | .60                                 |
| 19      | 1.6                        | 60                                   | .25                                 | 1.7                        | 47                                   | .22                                 | 3.7                        | 46                                   | .46                                 |
| 20      | 1.5                        | 65                                   | .27                                 | 2.2                        | 45                                   | .27                                 | 3.5                        | 40                                   | .38                                 |
| 21      | 1.4                        | 60                                   | .23                                 | 2.8                        | 49                                   | .37                                 | 3.7                        | 39                                   | .39                                 |
| 22      | 1.4                        | 53                                   | .20                                 | 2.8                        | 53                                   | .40                                 | 3.9                        | 40                                   | .43                                 |
| 23      | 1.3                        | 51                                   | .18                                 | 2.6                        | 53                                   | .38                                 | 3.8                        | 42                                   | .43                                 |
| 24      | 1.3                        | 50                                   | .18                                 | 2.6                        | 52                                   | .37                                 | 3.5                        | 43                                   | .41                                 |
| 25      | 1.3                        | 50                                   | .17                                 | 2.8                        | 58                                   | .43                                 | 3.3                        | 42                                   | .37                                 |
| 26      | 1.3                        | 50                                   | .17                                 | 2.9                        | 63                                   | .50                                 | 3.1                        | 40                                   | .34                                 |
| 27      | 1.2                        | 49                                   | .17                                 | 2.9                        | 56                                   | .44                                 | 3.0                        | 38                                   | .31                                 |
| 28      | 1.2                        | 49                                   | .16                                 | 2.8                        | 49                                   | .37                                 | 2.9                        | 37                                   | .29                                 |
| 29      | 1.2                        | 50                                   | .17                                 | 2.6                        | 43                                   | .30                                 | 2.7                        | 36                                   | .26                                 |
| 30      | 1.2                        | 48                                   | .16                                 | 2.4                        | 42                                   | .27                                 | 2.6                        | 35                                   | .24                                 |
| 31      | 1.2                        | 46                                   | .15                                 | ---                        | ---                                  | ---                                 | 2.5                        | 35                                   | .23                                 |
| JANUARY |                            |                                      | FEBRUARY                            |                            |                                      | MARCH                               |                            |                                      |                                     |
| 1       | 2.5                        | 38                                   | .25                                 | 58                         | 56                                   | 8.8                                 | 33                         | 86                                   | 7.6                                 |
| 2       | 2.5                        | 41                                   | .27                                 | 38                         | 52                                   | 5.3                                 | 23                         | 81                                   | 4.9                                 |
| 3       | 2.5                        | 45                                   | .31                                 | 29                         | 49                                   | 3.8                                 | 19                         | 80                                   | 4.0                                 |
| 4       | 4.9                        | 75                                   | 1.0                                 | 24                         | 47                                   | 3.1                                 | 16                         | 72                                   | 3.1                                 |
| 5       | 5.2                        | 75                                   | 1.1                                 | 20                         | 44                                   | 2.4                                 | 15                         | 63                                   | 2.5                                 |
| 6       | 4.3                        | 73                                   | .85                                 | 17                         | 42                                   | 1.9                                 | 12                         | 56                                   | 1.8                                 |
| 7       | 3.7                        | 74                                   | .73                                 | 15                         | 40                                   | 1.6                                 | 10                         | 58                                   | 1.6                                 |
| 8       | 3.4                        | 73                                   | .66                                 | 14                         | 37                                   | 1.4                                 | 8.9                        | 63                                   | 1.5                                 |
| 9       | 63                         | 478                                  | 115                                 | 12                         | 33                                   | 1.1                                 | 15                         | 82                                   | 3.4                                 |
| 10      | 36                         | 317                                  | 34                                  | 12                         | 34                                   | 1.1                                 | 112                        | 221                                  | 189                                 |
| 11      | 13                         | 119                                  | 4.1                                 | 11                         | 35                                   | 1.1                                 | 840                        | 607                                  | 1480                                |
| 12      | 7.4                        | 119                                  | 2.4                                 | 11                         | 36                                   | 1.1                                 | 304                        | 146                                  | 130                                 |
| 13      | 8.8                        | 147                                  | 3.9                                 | 15                         | 40                                   | 1.7                                 | 95                         | 80                                   | 21                                  |
| 14      | 9.7                        | 200                                  | 5.3                                 | 90                         | 168                                  | 43                                  | 49                         | 67                                   | 8.8                                 |
| 15      | 6.6                        | 148                                  | 2.7                                 | 57                         | 157                                  | 25                                  | 33                         | 61                                   | 5.5                                 |
| 16      | 5.4                        | 111                                  | 1.6                                 | 34                         | 102                                  | 9.5                                 | 49                         | 82                                   | 13                                  |
| 17      | 4.8                        | 87                                   | 1.1                                 | 26                         | 86                                   | 5.9                                 | 82                         | 95                                   | 21                                  |
| 18      | 4.5                        | 130                                  | 1.6                                 | 42                         | 138                                  | 19                                  | 50                         | 78                                   | 10                                  |
| 19      | 4.3                        | 99                                   | 1.1                                 | 192                        | 263                                  | 145                                 | 3870                       | 866                                  | 10700                               |
| 20      | 4.2                        | 82                                   | .94                                 | 71                         | 137                                  | 27                                  | 2000                       | 306                                  | 1960                                |
| 21      | 3.9                        | 77                                   | .82                                 | 38                         | 104                                  | 11                                  | 666                        | 140                                  | 258                                 |
| 22      | 3.8                        | 77                                   | .79                                 | 26                         | 92                                   | 6.5                                 | 260                        | 148                                  | 102                                 |
| 23      | 5.5                        | 78                                   | 1.2                                 | 21                         | 91                                   | 5.2                                 | 122                        | 189                                  | 61                                  |
| 24      | 7.7                        | 79                                   | 1.6                                 | 20                         | 92                                   | 4.9                                 | 76                         | 206                                  | 42                                  |
| 25      | 6.7                        | 76                                   | 1.4                                 | 16                         | 80                                   | 3.5                                 | 66                         | 230                                  | 43                                  |
| 26      | 5.6                        | 72                                   | 1.1                                 | 15                         | 74                                   | 3.0                                 | 108                        | 209                                  | 63                                  |
| 27      | 4.9                        | 66                                   | .87                                 | 255                        | 294                                  | 229                                 | 222                        | 205                                  | 133                                 |
| 28      | 5.9                        | 79                                   | 1.4                                 | 109                        | 142                                  | 44                                  | 138                        | 121                                  | 47                                  |
| 29      | 76                         | 507                                  | 116                                 | 49                         | 102                                  | 14                                  | 68                         | 75                                   | 14                                  |
| 30      | 136                        | 187                                  | 70                                  | ---                        | ---                                  | ---                                 | 86                         | 81                                   | 20                                  |
| 31      | 101                        | 77                                   | 22                                  | ---                        | ---                                  | ---                                 | 69                         | 78                                   | 15                                  |

## YAZOO RIVER BASIN

07281977 YALOBUSHA RIVER NEAR DERMA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY   | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| APRIL |                            |                                      | MAY                                 |                            |                                      | JUNE                                |                            |                                      |                                     |
| 1     | 189                        | 118                                  | 209                                 | 16                         | 42                                   | 1.8                                 | 6.5                        | 60                                   | 1.0                                 |
| 2     | 10000                      | 623                                  | 16400                               | 14                         | 40                                   | 1.5                                 | 5.2                        | 51                                   | .71                                 |
| 3     | 11400                      | 479                                  | 14700                               | 25                         | 104                                  | 7.7                                 | 9.1                        | 60                                   | 2.4                                 |
| 4     | 6820                       | 200                                  | 4030                                | 26                         | 106                                  | 7.5                                 | 68                         | 106                                  | 20                                  |
| 5     | 1230                       | 137                                  | 435                                 | 22                         | 59                                   | 3.5                                 | 162                        | 234                                  | 126                                 |
| 6     | 376                        | 106                                  | 114                                 | 54                         | 212                                  | 32                                  | 75                         | 133                                  | 30                                  |
| 7     | 171                        | 76                                   | 35                                  | 30                         | 140                                  | 12                                  | 23                         | 65                                   | 4.1                                 |
| 8     | 425                        | 198                                  | 251                                 | 20                         | 111                                  | 5.9                                 | 9.3                        | 58                                   | 1.5                                 |
| 9     | 221                        | 112                                  | 68                                  | 15                         | 102                                  | 4.2                                 | 5.3                        | 58                                   | .83                                 |
| 10    | 108                        | 84                                   | 25                                  | 28                         | 160                                  | 13                                  | 4.5                        | 58                                   | .71                                 |
| 11    | 68                         | 69                                   | 13                                  | 26                         | 155                                  | 11                                  | 3.7                        | 59                                   | .59                                 |
| 12    | 56                         | 63                                   | 9.7                                 | 17                         | 92                                   | 4.3                                 | 3.0                        | 60                                   | .48                                 |
| 13    | 1740                       | 404                                  | 2590                                | 13                         | 70                                   | 2.4                                 | 2.3                        | 49                                   | .31                                 |
| 14    | 971                        | 256                                  | 710                                 | 9.6                        | 61                                   | 1.6                                 | 1.8                        | 38                                   | .19                                 |
| 15    | 377                        | 151                                  | 158                                 | 7.8                        | 53                                   | 1.1                                 | 1.6                        | 68                                   | .29                                 |
| 16    | 177                        | 103                                  | 50                                  | 6.7                        | 53                                   | .97                                 | 1.4                        | 43                                   | .17                                 |
| 17    | 99                         | 71                                   | 19                                  | 5.9                        | 56                                   | .90                                 | 3.6                        | 45                                   | .62                                 |
| 18    | 64                         | 58                                   | 10                                  | 5.4                        | 61                                   | .89                                 | 79                         | 234                                  | 74                                  |
| 19    | 49                         | 52                                   | 6.8                                 | 5.1                        | 66                                   | .90                                 | 81                         | 385                                  | 94                                  |
| 20    | 42                         | 47                                   | 5.4                                 | 4.8                        | 61                                   | .78                                 | 22                         | 216                                  | 13                                  |
| 21    | 38                         | 43                                   | 4.4                                 | 4.7                        | 53                                   | .67                                 | 11                         | 169                                  | 5.2                                 |
| 22    | 31                         | 42                                   | 3.4                                 | 4.8                        | 45                                   | .59                                 | 84                         | 285                                  | 79                                  |
| 23    | 27                         | 41                                   | 3.0                                 | 4.6                        | 39                                   | .48                                 | 30                         | 146                                  | 12                                  |
| 24    | 34                         | 57                                   | 5.3                                 | 4.3                        | 41                                   | .48                                 | 9.5                        | 97                                   | 2.5                                 |
| 25    | 34                         | 58                                   | 5.4                                 | 4.2                        | 41                                   | .47                                 | 4.9                        | 71                                   | .94                                 |
| 26    | 28                         | 49                                   | 3.7                                 | 35                         | 620                                  | 75                                  | 3.3                        | 52                                   | .46                                 |
| 27    | 23                         | 54                                   | 3.3                                 | 25                         | 336                                  | 24                                  | 2.5                        | 44                                   | .29                                 |
| 28    | 26                         | 64                                   | 4.5                                 | 41                         | 598                                  | 75                                  | 3.9                        | 113                                  | 1.2                                 |
| 29    | 23                         | 59                                   | 3.7                                 | 29                         | 415                                  | 34                                  | 6.1                        | 331                                  | 6.4                                 |
| 30    | 18                         | 50                                   | 2.5                                 | 15                         | 186                                  | 7.7                                 | 5.4                        | 456                                  | 6.7                                 |
| 31    | ---                        | ---                                  | ---                                 | 9.1                        | 85                                   | 2.1                                 | ---                        | ---                                  | ---                                 |
| JULY  |                            |                                      | AUGUST                              |                            |                                      | SEPTEMBER                           |                            |                                      |                                     |
| 1     | 3.3                        | 277                                  | 2.5                                 | .39                        | 87                                   | .09                                 | .000                       | 68                                   | .00                                 |
| 2     | 2.3                        | 159                                  | 1.0                                 | .36                        | 74                                   | .07                                 | .000                       | 70                                   | .00                                 |
| 3     | 1.8                        | 92                                   | .44                                 | .32                        | 75                                   | .06                                 | .000                       | 68                                   | .00                                 |
| 4     | 1.4                        | 65                                   | .25                                 | .28                        | 82                                   | .06                                 | .000                       | 66                                   | .00                                 |
| 5     | 1.2                        | 52                                   | .16                                 | .24                        | 75                                   | .05                                 | .000                       | 66                                   | .00                                 |
| 6     | .99                        | 75                                   | .20                                 | .21                        | 65                                   | .04                                 | .000                       | 66                                   | .00                                 |
| 7     | .87                        | 56                                   | .13                                 | .18                        | 56                                   | .03                                 | .096                       | 67                                   | .02                                 |
| 8     | .79                        | 51                                   | .11                                 | .16                        | 60                                   | .03                                 | .096                       | 68                                   | .02                                 |
| 9     | .72                        | 58                                   | .11                                 | .14                        | 68                                   | .03                                 | .095                       | 66                                   | .02                                 |
| 10    | .67                        | 65                                   | .12                                 | .12                        | 68                                   | .02                                 | .094                       | 63                                   | .02                                 |
| 11    | .62                        | 67                                   | .11                                 | .11                        | 66                                   | .02                                 | .092                       | 61                                   | .01                                 |
| 12    | .57                        | 64                                   | .10                                 | .096                       | 64                                   | .02                                 | .092                       | 62                                   | .01                                 |
| 13    | .54                        | 56                                   | .08                                 | .081                       | 64                                   | .01                                 | .092                       | 65                                   | .02                                 |
| 14    | .53                        | 47                                   | .07                                 | .069                       | 63                                   | .01                                 | .091                       | 64                                   | .02                                 |
| 15    | .52                        | 45                                   | .06                                 | .064                       | 61                                   | .01                                 | .089                       | 63                                   | .01                                 |
| 16    | .49                        | 47                                   | .06                                 | .061                       | 57                                   | .01                                 | .085                       | 65                                   | .01                                 |
| 17    | .47                        | 48                                   | .06                                 | .057                       | 56                                   | .01                                 | .082                       | 69                                   | .01                                 |
| 18    | .45                        | 44                                   | .05                                 | .054                       | 56                                   | .01                                 | .080                       | 70                                   | .01                                 |
| 19    | .43                        | 39                                   | .05                                 | .050                       | 58                                   | .01                                 | .078                       | 66                                   | .01                                 |
| 20    | .40                        | 63                                   | .07                                 | .047                       | 60                                   | .01                                 | .077                       | 71                                   | .01                                 |
| 21    | .39                        | 81                                   | .09                                 | .045                       | 62                                   | .01                                 | .081                       | 73                                   | .02                                 |
| 22    | .40                        | 79                                   | .09                                 | .043                       | 62                                   | .01                                 | .082                       | 74                                   | .02                                 |
| 23    | .40                        | 70                                   | .08                                 | .041                       | 60                                   | .01                                 | .083                       | 73                                   | .02                                 |
| 24    | .39                        | 62                                   | .07                                 | .039                       | 58                                   | .01                                 | .087                       | 72                                   | .02                                 |
| 25    | .38                        | 60                                   | .06                                 | .037                       | 57                                   | .01                                 | .091                       | 71                                   | .02                                 |
| 26    | .36                        | 59                                   | .06                                 | .034                       | 56                                   | .01                                 | .089                       | 75                                   | .02                                 |
| 27    | .34                        | 56                                   | .05                                 | .030                       | 55                                   | .00                                 | .090                       | 76                                   | .02                                 |
| 28    | .32                        | 52                                   | .04                                 | .020                       | 55                                   | .00                                 | .091                       | 76                                   | .02                                 |
| 29    | .30                        | 50                                   | .04                                 | .010                       | 55                                   | .00                                 | .090                       | 75                                   | .02                                 |
| 30    | .37                        | 86                                   | .09                                 | .000                       | 55                                   | .00                                 | .089                       | 75                                   | .02                                 |
| 31    | .42                        | 99                                   | .11                                 | .000                       | 61                                   | .00                                 | ---                        | ---                                  | ---                                 |

## 07282000 YALOBUSHA RIVER AND TOPASHAW CREEK CANAL AT CALHOUN CITY, MS

LOCATION.--Lat 33°50'19", long 89°18'56", in SE1/4 SE1/4 sec.23, T.23 N., R.9 E., Choctaw Meridian, Calhoun County, Hydrologic Unit 08030205, at downstream side of bridge on State Highway 9, 0.8 mi upstream from Topashaw Creek, 1.2 mi south of Calhoun City, 1.5 mi upstream from old channel, and 4.8 mi upstream from Topashaw Creek Canal. Records include flow in Topashaw Creek Canal and all supplemental channels.

DRAINAGE AREA.--295 mi<sup>2</sup>, combined drainage area of all channels.

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1997, published as Yalobusha River at Calhoun City.

REVISED RECORDS.--WRD Miss. 1970: 1969(M). WDR MS-78-1: 1977(P). WDR MS-92: 1983-85. WDR MS-98-1: Drainage area. WRD MS-001: 1997.

GAGE.--Water-stage recorder. Datum of gage is 226.06 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to Jan. 1, 1972, datum of gage was 10.00 ft higher. Prior to Nov. 15, 1950, nonrecording gage at site 75 ft downstream at same datum. Water-stage recorder on Topashaw Creek canal, 2.5 mi southwest of base gage. Prior to Aug. 16, 1963, nonrecording gage and crest-stage gage on Topashaw Creek Canal.

REMARKS.--Estimated daily discharges: Oct. 9-12, Aug. 27-31, and Sept. 01-11. Records fair except for estimated daily discharges, which are poor. Discharge computed by combining the flow of individually rated Yalobusha River and Topashaw Creek Canal. Channel rectification of both Yalobusha River and Topashaw Creek was completed in 1967. U. S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft<sup>3</sup>/s and maximum (\*).

| Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Apr. 3 | 1645 | *23,600                        | *23.24           | No other peak greater than base discharge. |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB  | MAR   | APR   | MAY   | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|--------|------|-------|-------|-------|--------|-------|-------|-------|
| 1     | 6.5   | 6.5   | 9.0   | 7.3    | 94   | 54    | 328   | 28    | 9.1    | 21    | 4.6   | e.81  |
| 2     | 6.0   | 8.3   | 8.8   | 7.3    | 56   | 37    | 16500 | 26    | 7.7    | 14    | 4.6   | e.77  |
| 3     | 5.7   | 8.3   | 8.7   | 7.3    | 41   | 30    | 17300 | 44    | 11     | 11    | 4.5   | e.73  |
| 4     | 5.4   | 8.0   | 8.8   | 13     | 33   | 25    | 11800 | 44    | 63     | 9.2   | 4.2   | e.69  |
| 5     | 5.1   | 7.6   | 9.7   | 14     | 27   | 24    | 3880  | 35    | 209    | 8.1   | 4.0   | e.66  |
| 6     | 4.8   | 7.5   | 11    | 12     | 23   | 20    | 1760  | 94    | 84     | 7.3   | 3.7   | e.62  |
| 7     | 4.6   | 7.4   | 11    | 10     | 21   | 19    | 726   | 46    | 28     | 6.8   | 3.6   | e.60  |
| 8     | 4.5   | 7.3   | 11    | 9.5    | 20   | 18    | 1700  | 28    | 15     | 6.3   | 3.4   | e.61  |
| 9     | e6.8  | 7.2   | 11    | 139    | 18   | 26    | 941   | 22    | 11     | 5.8   | 3.3   | e.63  |
| 10    | e16   | 7.2   | 86    | 81     | 18   | 176   | 424   | 35    | 10     | 5.5   | 3.2   | e.64  |
| 11    | e13   | 7.1   | 27    | 29     | 17   | 2230  | 259   | 33    | 9.6    | 5.2   | 3.1   | e.65  |
| 12    | e10   | 7.0   | 42    | 18     | 17   | 699   | 210   | 22    | 8.7    | 4.9   | 3.0   | .68   |
| 13    | 7.5   | 7.0   | 422   | 22     | 21   | 194   | 3690  | 17    | 7.7    | 4.7   | 2.8   | .70   |
| 14    | 6.9   | 7.0   | 63    | 24     | 147  | 91    | 3060  | 14    | 6.9    | 4.7   | 2.6   | .69   |
| 15    | 6.5   | 7.0   | 27    | 17     | 91   | 58    | 1620  | 12    | 6.1    | 4.7   | 2.5   | .68   |
| 16    | 6.2   | 7.0   | 17    | 14     | 49   | 91    | 678   | 11    | 5.6    | 4.6   | 2.5   | .66   |
| 17    | 5.9   | 6.9   | 13    | 13     | 36   | 159   | 342   | 9.9   | 8.2    | 4.4   | 2.3   | .64   |
| 18    | 5.6   | 6.9   | 11    | 12     | 60   | 93    | 206   | 9.1   | 111    | 4.2   | 2.0   | .63   |
| 19    | 5.5   | 7.1   | 10    | 12     | 325  | 6730  | 148   | 8.6   | 148    | 4.1   | 1.7   | .61   |
| 20    | 5.3   | 8.5   | 9.7   | 11     | 124  | 4790  | 124   | 8.1   | 38     | 4.0   | 1.6   | .60   |
| 21    | 5.3   | 10    | 10    | 11     | 60   | 1910  | 108   | 7.9   | 22     | 3.9   | 1.5   | .63   |
| 22    | 5.2   | 10    | 11    | 11     | 39   | 482   | 82    | 8.0   | 182    | 4.1   | 1.5   | .63   |
| 23    | 5.0   | 9.9   | 10    | 14     | 32   | 192   | 71    | 7.7   | 53     | 4.1   | 1.4   | .63   |
| 24    | 5.0   | 9.8   | 9.7   | 19     | 28   | 109   | 85    | 7.2   | 21     | 4.1   | 1.3   | .66   |
| 25    | 4.9   | 10    | 9.2   | 17     | 24   | 88    | 81    | 7.1   | 13     | 4.0   | 1.2   | .68   |
| 26    | 4.9   | 11    | 8.8   | 15     | 23   | 164   | 63    | 36    | 9.0    | 3.9   | 1.2   | .68   |
| 27    | 4.9   | 11    | 8.5   | 13     | 486  | 347   | 50    | 27    | 7.4    | 3.8   | e1.1  | .69   |
| 28    | 5.0   | 10    | 8.3   | 18     | 211  | 224   | 55    | 41    | 13     | 3.7   | e1.0  | .69   |
| 29    | 5.1   | 9.9   | 7.8   | 241    | 88   | 98    | 46    | 31    | 32     | 3.6   | e.97  | .69   |
| 30    | 5.1   | 9.5   | 7.6   | 353    | ---  | 135   | 35    | 17    | 34     | 4.2   | e.91  | .68   |
| 31    | 5.2   | ---   | 7.5   | 178    | ---  | 103   | ---   | 12    | ---    | 4.7   | e.87  | ---   |
| TOTAL | 193.4 | 247.9 | 915.1 | 1362.4 | 2229 | 19416 | 66372 | 748.6 | 1184.0 | 184.6 | 76.15 | 19.96 |
| MEAN  | 6.24  | 8.26  | 29.5  | 43.9   | 76.9 | 626   | 2212  | 24.1  | 39.5   | 5.95  | 2.46  | .67   |
| MAX   | 16    | 11    | 422   | 353    | 486  | 6730  | 17300 | 94    | 209    | 21    | 4.6   | .81   |
| MIN   | 4.5   | 6.5   | 7.5   | 7.3    | 17   | 18    | 35    | 7.1   | 5.6    | 3.6   | .87   | .60   |
| CFSM  | .02   | .03   | .10   | .15    | .26  | 2.12  | 7.50  | .08   | .13    | .02   | .01   | .00   |
| IN.   | .02   | .03   | .12   | .17    | .28  | 2.45  | 8.37  | .09   | .15    | .02   | .01   | .00   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 47.2 | 262  | 630  | 717  | 839  | 990  | 826  | 448  | 241  | 112  | 55.6 | 58.9 |
| MAX  | 622  | 2827 | 4402 | 2400 | 2409 | 3583 | 3418 | 3696 | 1815 | 948  | 335  | 857  |
| (WY) | 1976 | 1958 | 1983 | 1974 | 1991 | 1980 | 1991 | 1991 | 1989 | 1979 | 1996 | 1979 |
| MIN  | .15  | .99  | 3.59 | 11.5 | 66.1 | 83.2 | 15.9 | 7.45 | .38  | 1.26 | .80  | .000 |
| (WY) | 1954 | 1982 | 1966 | 1956 | 1963 | 1954 | 1986 | 1988 | 1988 | 1954 | 1951 | 1950 |

## SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1951 - 2000

|           | ANNUAL TOTAL | ANNUAL MEAN | HIGHEST ANNUAL MEAN | LOWEST ANNUAL MEAN | HIGHEST DAILY MEAN | LOWEST DAILY MEAN | ANNUAL SEVEN-DAY MINIMUM | INSTANTANEOUS PEAK FLOW | INSTANTANEOUS PEAK STAGE | ANNUAL RUNOFF (CFSM) | ANNUAL RUNOFF (INCHES) | 10 PERCENT EXCEEDS | 50 PERCENT EXCEEDS | 90 PERCENT EXCEEDS |
|-----------|--------------|-------------|---------------------|--------------------|--------------------|-------------------|--------------------------|-------------------------|--------------------------|----------------------|------------------------|--------------------|--------------------|--------------------|
| 1999      | 205265.0     | 562         | 19400               | 3.3                | 19400              | 3.3               | 3.5                      | 23600                   | 23.24a                   | 1.91                 | 25.88                  | 1460               | 27                 | 5.0                |
| 2000      | 92949.11     | 254         | 17300               | .60                | 17300              | .60               | .62                      | 23600                   | 23.24a                   | 1.91                 | 25.88                  | 1460               | 27                 | 5.0                |
| 1951-2000 | 434          | 1171        | 78.6                | 50800              | .00                | .00               | .00                      | 70100                   | 25.75                    | 1.47                 | 19.97                  | 923                | 40                 | 2.1                |
| 1991      | 1171         | 78.6        | 50800               | .00                | 70100              | 25.75             | 1.47                     | 19.97                   | 923                      | 40                   | 2.1                    |                    |                    |                    |
| 1986      | 78.6         | 50800       | .00                 | 70100              | 25.75              | 1.47              | 19.97                    | 923                     | 40                       | 2.1                  |                        |                    |                    |                    |
| 1982      | 50800        | .00         | 70100               | 25.75              | 1.47               | 19.97             | 923                      | 40                      | 2.1                      |                      |                        |                    |                    |                    |
| 1952      | .00          | 70100       | 25.75               | 1.47               | 19.97              | 923               | 40                       | 2.1                     |                          |                      |                        |                    |                    |                    |
| 1952      | .00          | 70100       | 25.75               | 1.47               | 19.97              | 923               | 40                       | 2.1                     |                          |                      |                        |                    |                    |                    |
| 1982      | 70100        | 25.75       | 1.47                | 19.97              | 923                | 40                | 2.1                      |                         |                          |                      |                        |                    |                    |                    |
| 1982      | 25.75        | 1.47        | 19.97               | 923                | 40                 | 2.1               |                          |                         |                          |                      |                        |                    |                    |                    |
| 1982      | 1.47         | 19.97       | 923                 | 40                 | 2.1                |                   |                          |                         |                          |                      |                        |                    |                    |                    |
| 1982      | 19.97        | 923         | 40                  | 2.1                |                    |                   |                          |                         |                          |                      |                        |                    |                    |                    |
| 1982      | 923          | 40          | 2.1                 |                    |                    |                   |                          |                         |                          |                      |                        |                    |                    |                    |
| 1982      | 40           | 2.1         |                     |                    |                    |                   |                          |                         |                          |                      |                        |                    |                    |                    |
| 1982      | 2.1          |             |                     |                    |                    |                   |                          |                         |                          |                      |                        |                    |                    |                    |

e Estimated

a From Floodmark.

07282090 TOPASHAW CREEK CANAL NEAR DERMA, MS

LOCATION.--Lat 33°46'47", long 89°14'49", in NE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec.16, T.22 N., R.10 E., Choctaw Meridian, Calhoun County, Hydrologic Unit 08030205, on right bank at upstream side of bridge on county road, 5.8 mi south of Derma, 0.5 mi upstream from Bear Creek, and 1.4 mi below Buck Creek.

DRAINAGE AREA.--63 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--Water year 1999

PERIOD OF DAILY RECORD.--

DISCHARGE: May 1998 to current year.

SUSPENDED SEDIMENT CONCENTRATION: May 1998 to current year.

SUSPENDED SEDIMENT DISCHARGE: May 1998 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is assumed.

REMARKS.--Estimated daily discharge: Nov. 11-14, Mar. 23-27, 31, July 24-28, Aug. 16-21, 27-30, Sept. 7-8. Discharge records fair except for estimated daily discharges, which are poor. Satellite telemeter at station. Flow intermingles with Bear Creek when stage is above bank full. Channel rectification was completed in 1967.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 10,950 ft<sup>3</sup>/s, June 27, 1999, maximum gage height, 31.14 ft, June 27, 1999; minimum daily mean, 0.00 ft<sup>3</sup>/s, Aug. 22-Sept. 8, 2000.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,240 mg/L, Jan. 22, 1999; minimum daily mean, 33 mg/L, May 21, July 6, 1999, Oct. 20, 2000.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 26,200 tons, Jan. 22, 1999; minimum daily, 0.00 ton, Aug. 21-Sept. 8, 2000.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 10,300 ft<sup>3</sup>/s, Apr. 3, gage height, 30.37 ft, Apr. 3; minimum daily mean, 0.00 ft<sup>3</sup>/s, Aug. 22-Sept. 8.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,480 mg/L, Apr. 3; minimum daily mean, 33 mg/L, Oct. 20.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 23,700 tons, Apr. 3; minimum daily, 0.00 ton, Aug. 21-Sept. 8.

## YAZOO RIVER BASIN

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07282090 TOPASHAW CREEK CANAL NEAR DERMA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY     | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|---------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| OCTOBER |                            |                                      | NOVEMBER                            |                            |                                      | DECEMBER                            |                            |                                      |                                     |
| 1       | 1.8                        | 147                                  | .70                                 | 6.8                        | 112                                  | 2.4                                 | 2.2                        | 41                                   | .25                                 |
| 2       | 1.4                        | 179                                  | .69                                 | 5.3                        | 62                                   | .96                                 | 2.3                        | 43                                   | .26                                 |
| 3       | 1.3                        | 190                                  | .69                                 | 2.5                        | 42                                   | .29                                 | 2.4                        | 44                                   | .29                                 |
| 4       | 1.3                        | 191                                  | .67                                 | 2.1                        | 41                                   | .23                                 | 2.7                        | 46                                   | .34                                 |
| 5       | 1.3                        | 57                                   | .20                                 | 2.1                        | 40                                   | .22                                 | 4.5                        | 57                                   | .70                                 |
| 6       | 1.3                        | 39                                   | .14                                 | 2.2                        | 41                                   | .24                                 | 5.4                        | 61                                   | .90                                 |
| 7       | 1.3                        | 39                                   | .14                                 | 2.1                        | 42                                   | .24                                 | 3.6                        | 55                                   | .54                                 |
| 8       | 1.5                        | 49                                   | .22                                 | 2.1                        | 43                                   | .25                                 | 2.9                        | 51                                   | .40                                 |
| 9       | 8.0                        | 203                                  | 4.5                                 | 2.1                        | 47                                   | .27                                 | 3.0                        | 52                                   | .43                                 |
| 10      | 4.7                        | 123                                  | 1.6                                 | 2.2                        | 50                                   | .28                                 | 6.3                        | 64                                   | 1.1                                 |
| 11      | 2.5                        | 63                                   | .44                                 | 2.2                        | 49                                   | .29                                 | 5.1                        | 54                                   | .76                                 |
| 12      | 1.9                        | 44                                   | .23                                 | 2.1                        | 49                                   | .28                                 | 27                         | 108                                  | 25                                  |
| 13      | 1.7                        | 38                                   | .18                                 | 2.1                        | 48                                   | .27                                 | 87                         | 201                                  | 62                                  |
| 14      | 1.6                        | 41                                   | .17                                 | 2.1                        | 46                                   | .26                                 | 13                         | 74                                   | 2.8                                 |
| 15      | 1.5                        | 45                                   | .18                                 | 2.0                        | 45                                   | .25                                 | 6.6                        | 54                                   | .96                                 |
| 16      | 1.4                        | 43                                   | .17                                 | 2.0                        | 42                                   | .23                                 | 4.8                        | 53                                   | .68                                 |
| 17      | 1.5                        | 40                                   | .17                                 | 2.0                        | 39                                   | .21                                 | 4.1                        | 49                                   | .54                                 |
| 18      | 1.5                        | 37                                   | .15                                 | 2.0                        | 42                                   | .22                                 | 3.8                        | 49                                   | .50                                 |
| 19      | 1.6                        | 36                                   | .16                                 | 2.0                        | 47                                   | .26                                 | 3.6                        | 48                                   | .47                                 |
| 20      | 1.7                        | 33                                   | .15                                 | 9.2                        | 173                                  | 5.3                                 | 3.6                        | 48                                   | .47                                 |
| 21      | 1.7                        | 35                                   | .16                                 | 7.1                        | 93                                   | 1.9                                 | 5.2                        | 45                                   | .63                                 |
| 22      | 1.7                        | 37                                   | .17                                 | 3.6                        | 51                                   | .50                                 | 5.9                        | 42                                   | .67                                 |
| 23      | 1.6                        | 38                                   | .16                                 | 2.8                        | 42                                   | .32                                 | 4.3                        | 41                                   | .47                                 |
| 24      | 1.5                        | 38                                   | .15                                 | 4.9                        | 39                                   | .51                                 | 3.7                        | 40                                   | .40                                 |
| 25      | 1.4                        | 38                                   | .14                                 | 6.7                        | 40                                   | .72                                 | 3.3                        | 39                                   | .35                                 |
| 26      | 1.5                        | 38                                   | .16                                 | 5.3                        | 42                                   | .60                                 | 3.2                        | 38                                   | .32                                 |
| 27      | 1.7                        | 38                                   | .17                                 | 4.0                        | 41                                   | .45                                 | 3.1                        | 37                                   | .31                                 |
| 28      | 2.4                        | 65                                   | .50                                 | 3.1                        | 41                                   | .34                                 | 3.1                        | 39                                   | .32                                 |
| 29      | 1.4                        | 47                                   | .18                                 | 2.6                        | 40                                   | .28                                 | 3.0                        | 41                                   | .34                                 |
| 30      | 1.4                        | 39                                   | .14                                 | 2.3                        | 39                                   | .24                                 | 2.9                        | 43                                   | .35                                 |
| 31      | 1.4                        | 40                                   | .15                                 | ---                        | ---                                  | ---                                 | 3.0                        | 45                                   | .36                                 |
| JANUARY |                            |                                      | FEBRUARY                            |                            |                                      | MARCH                               |                            |                                      |                                     |
| 1       | 3.1                        | 46                                   | .38                                 | 26                         | 54                                   | 3.8                                 | 19                         | 49                                   | 2.5                                 |
| 2       | 3.1                        | 46                                   | .39                                 | 17                         | 45                                   | 2.1                                 | 14                         | 46                                   | 1.8                                 |
| 3       | 23                         | 97                                   | 18                                  | 13                         | 42                                   | 1.5                                 | 12                         | 44                                   | 1.5                                 |
| 4       | 51                         | 134                                  | 23                                  | 11                         | 40                                   | 1.2                                 | 15                         | 68                                   | 3.1                                 |
| 5       | 11                         | 73                                   | 2.1                                 | 8.7                        | 41                                   | .95                                 | 11                         | 62                                   | 1.9                                 |
| 6       | 6.4                        | 57                                   | .98                                 | 7.5                        | 41                                   | .83                                 | 9.7                        | 45                                   | 1.2                                 |
| 7       | 5.0                        | 46                                   | .62                                 | 7.1                        | 42                                   | .80                                 | 8.8                        | 39                                   | .92                                 |
| 8       | 5.1                        | 54                                   | .80                                 | 6.6                        | 40                                   | .72                                 | 8.4                        | 41                                   | .93                                 |
| 9       | 124                        | 300                                  | 117                                 | 6.0                        | 38                                   | .62                                 | 20                         | 80                                   | 5.1                                 |
| 10      | 29                         | 102                                  | 8.7                                 | 5.8                        | 36                                   | .56                                 | 108                        | 321                                  | 385                                 |
| 11      | 11                         | 60                                   | 1.9                                 | 5.6                        | 34                                   | .51                                 | 367                        | 644                                  | 788                                 |
| 12      | 7.3                        | 47                                   | .92                                 | 5.6                        | 34                                   | .51                                 | 90                         | 147                                  | 38                                  |
| 13      | 31                         | 227                                  | 23                                  | 11                         | 89                                   | 7.0                                 | 50                         | 76                                   | 10                                  |
| 14      | 15                         | 140                                  | 5.8                                 | 49                         | 159                                  | 24                                  | 34                         | 69                                   | 6.4                                 |
| 15      | 8.0                        | 85                                   | 1.8                                 | 18                         | 58                                   | 2.9                                 | 28                         | 70                                   | 5.3                                 |
| 16      | 6.6                        | 64                                   | 1.1                                 | 12                         | 48                                   | 1.6                                 | 30                         | 67                                   | 5.5                                 |
| 17      | 6.3                        | 53                                   | .91                                 | 9.9                        | 44                                   | 1.2                                 | 27                         | 64                                   | 4.7                                 |
| 18      | 5.5                        | 42                                   | .62                                 | 9.8                        | 44                                   | 1.2                                 | 21                         | 61                                   | 3.5                                 |
| 19      | 5.3                        | 47                                   | .68                                 | 30                         | 66                                   | 5.6                                 | 1020                       | 1180                                 | 4130                                |
| 20      | 5.7                        | 46                                   | .70                                 | 17                         | 46                                   | 2.1                                 | 263                        | 344                                  | 290                                 |
| 21      | 4.3                        | 41                                   | .47                                 | 12                         | 45                                   | 1.4                                 | 96                         | 126                                  | 34                                  |
| 22      | 4.5                        | 40                                   | .49                                 | 9.8                        | 47                                   | 1.2                                 | 69                         | 80                                   | 15                                  |
| 23      | 11                         | 125                                  | 4.2                                 | 8.5                        | 48                                   | 1.1                                 | 48                         | 59                                   | 7.5                                 |
| 24      | 8.6                        | 93                                   | 2.2                                 | 8.0                        | 45                                   | .97                                 | 38                         | 56                                   | 5.7                                 |
| 25      | 5.8                        | 65                                   | 1.0                                 | 7.3                        | 40                                   | .79                                 | 30                         | 59                                   | 4.8                                 |
| 26      | 4.6                        | 53                                   | .65                                 | 12                         | 62                                   | 5.3                                 | 28                         | 58                                   | 4.4                                 |
| 27      | 4.2                        | 56                                   | .64                                 | 173                        | 216                                  | 138                                 | 35                         | 56                                   | 5.3                                 |
| 28      | 19                         | 102                                  | 8.3                                 | 47                         | 71                                   | 9.2                                 | 26                         | 62                                   | 4.4                                 |
| 29      | 96                         | 201                                  | 52                                  | 26                         | 57                                   | 4.1                                 | 26                         | 81                                   | 6.1                                 |
| 30      | 71                         | 99                                   | 21                                  | ---                        | ---                                  | ---                                 | 126                        | 172                                  | 69                                  |
| 31      | 46                         | 57                                   | 7.2                                 | ---                        | ---                                  | ---                                 | 42                         | 85                                   | 10                                  |



## YAZOO RIVER BASIN

07282090 TOPASHAW CREEK CANAL NEAR DERMA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY   | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| APRIL |                            |                                      | MAY                                 |                            |                                      | JUNE                                |                            |                                      |                                     |
| 1     | 120                        | 90                                   | 80                                  | 14                         | 46                                   | 1.7                                 | 2.3                        | 35                                   | .22                                 |
| 2     | 4230                       | 1460                                 | 18300                               | 15                         | 43                                   | 1.8                                 | 2.7                        | 36                                   | .26                                 |
| 3     | 4540                       | 1480                                 | 23700                               | 13                         | 44                                   | 1.5                                 | 8.7                        | 86                                   | 3.4                                 |
| 4     | 561                        | 596                                  | 972                                 | 13                         | 46                                   | 1.5                                 | 6.6                        | 76                                   | 1.4                                 |
| 5     | 194                        | 410                                  | 217                                 | 13                         | 47                                   | 1.6                                 | 11                         | 79                                   | 2.3                                 |
| 6     | 126                        | 298                                  | 102                                 | 12                         | 47                                   | 1.6                                 | 6.5                        | 68                                   | 1.2                                 |
| 7     | 103                        | 228                                  | 64                                  | 9.9                        | 46                                   | 1.2                                 | 3.9                        | 42                                   | .45                                 |
| 8     | 245                        | 480                                  | 358                                 | 8.0                        | 44                                   | .96                                 | 3.0                        | 37                                   | .30                                 |
| 9     | 97                         | 354                                  | 93                                  | 7.4                        | 40                                   | .80                                 | 2.6                        | 38                                   | .27                                 |
| 10    | 70                         | 306                                  | 58                                  | 6.9                        | 37                                   | .68                                 | 2.6                        | 38                                   | .27                                 |
| 11    | 58                         | 247                                  | 39                                  | 6.6                        | 39                                   | .71                                 | 2.3                        | 37                                   | .24                                 |
| 12    | 57                         | 196                                  | 30                                  | 6.2                        | 40                                   | .67                                 | 2.1                        | 37                                   | .21                                 |
| 13    | 710                        | 1000                                 | 2700                                | 5.8                        | 39                                   | .62                                 | 2.1                        | 36                                   | .20                                 |
| 14    | 182                        | 509                                  | 259                                 | 5.1                        | 39                                   | .53                                 | 1.9                        | 34                                   | .18                                 |
| 15    | 100                        | 353                                  | 96                                  | 4.4                        | 38                                   | .46                                 | 1.7                        | 39                                   | .18                                 |
| 16    | 69                         | 283                                  | 53                                  | 4.2                        | 42                                   | .47                                 | 2.9                        | 43                                   | .46                                 |
| 17    | 44                         | 224                                  | 27                                  | 4.0                        | 47                                   | .51                                 | 44                         | 203                                  | 57                                  |
| 18    | 29                         | 150                                  | 12                                  | 4.2                        | 44                                   | .51                                 | 54                         | 208                                  | 34                                  |
| 19    | 24                         | 95                                   | 6.0                                 | 3.8                        | 39                                   | .40                                 | 15                         | 122                                  | 5.6                                 |
| 20    | 19                         | 78                                   | 4.0                                 | 4.2                        | 39                                   | .44                                 | 5.6                        | 105                                  | 1.6                                 |
| 21    | 16                         | 71                                   | 3.0                                 | 8.1                        | 40                                   | .88                                 | 3.9                        | 115                                  | 1.2                                 |
| 22    | 14                         | 67                                   | 2.5                                 | 5.0                        | 42                                   | .57                                 | 134                        | 298                                  | 220                                 |
| 23    | 14                         | 65                                   | 2.5                                 | 3.9                        | 46                                   | .48                                 | 7.2                        | 62                                   | 1.2                                 |
| 24    | 25                         | 62                                   | 4.1                                 | 3.5                        | 41                                   | .38                                 | 3.5                        | 48                                   | .45                                 |
| 25    | 18                         | 53                                   | 2.6                                 | 3.5                        | 40                                   | .37                                 | 2.5                        | 45                                   | .31                                 |
| 26    | 14                         | 44                                   | 1.6                                 | 11                         | 164                                  | 5.6                                 | 2.0                        | 43                                   | .23                                 |
| 27    | 13                         | 46                                   | 1.8                                 | 5.2                        | 68                                   | .98                                 | 21                         | 86                                   | 19                                  |
| 28    | 25                         | 192                                  | 14                                  | 7.7                        | 50                                   | 1.0                                 | 17                         | 130                                  | 8.5                                 |
| 29    | 14                         | 77                                   | 3.0                                 | 4.8                        | 42                                   | .55                                 | 9.7                        | 95                                   | 2.6                                 |
| 30    | 12                         | 56                                   | 1.8                                 | 3.2                        | 38                                   | .33                                 | 5.0                        | 50                                   | .69                                 |
| 31    | ---                        | ---                                  | ---                                 | 2.7                        | 35                                   | .25                                 | ---                        | ---                                  | ---                                 |
| JULY  |                            |                                      | AUGUST                              |                            |                                      | SEPTEMBER                           |                            |                                      |                                     |
| 1     | 3.1                        | 42                                   | .35                                 | 2.4                        | 57                                   | .37                                 | .000                       | 66                                   | .00                                 |
| 2     | 2.2                        | 40                                   | .23                                 | 1.9                        | 48                                   | .25                                 | .000                       | 71                                   | .00                                 |
| 3     | 1.8                        | 38                                   | .19                                 | 1.4                        | 45                                   | .17                                 | .000                       | 74                                   | .00                                 |
| 4     | 1.3                        | 39                                   | .13                                 | .98                        | 43                                   | .11                                 | .000                       | 76                                   | .00                                 |
| 5     | 1.1                        | 39                                   | .11                                 | .99                        | 40                                   | .11                                 | .000                       | 71                                   | .00                                 |
| 6     | 1.1                        | 35                                   | .10                                 | .85                        | 37                                   | .09                                 | .000                       | 65                                   | .00                                 |
| 7     | 1.5                        | 42                                   | .17                                 | .80                        | 35                                   | .08                                 | .000                       | 61                                   | .00                                 |
| 8     | 1.1                        | 45                                   | .13                                 | .79                        | 37                                   | .08                                 | .000                       | 57                                   | .00                                 |
| 9     | .87                        | 45                                   | .11                                 | .68                        | 40                                   | .07                                 | .13                        | 56                                   | .02                                 |
| 10    | 1.0                        | 45                                   | .12                                 | .55                        | 41                                   | .06                                 | .21                        | 56                                   | .03                                 |
| 11    | .85                        | 44                                   | .10                                 | .42                        | 40                                   | .05                                 | .17                        | 56                                   | .03                                 |
| 12    | 1.1                        | 43                                   | .12                                 | .39                        | 46                                   | .05                                 | .33                        | 52                                   | .05                                 |
| 13    | 1.6                        | 44                                   | .19                                 | .33                        | 54                                   | .05                                 | .58                        | 47                                   | .07                                 |
| 14    | 1.9                        | 46                                   | .23                                 | .37                        | 63                                   | .06                                 | .62                        | 43                                   | .07                                 |
| 15    | 1.6                        | 49                                   | .21                                 | .25                        | 69                                   | .05                                 | .32                        | 40                                   | .04                                 |
| 16    | 1.2                        | 53                                   | .16                                 | .18                        | 75                                   | .04                                 | .20                        | 40                                   | .02                                 |
| 17    | .85                        | 56                                   | .13                                 | .14                        | 76                                   | .03                                 | .15                        | 42                                   | .02                                 |
| 18    | 1.1                        | 51                                   | .14                                 | .12                        | 76                                   | .02                                 | .17                        | 44                                   | .02                                 |
| 19    | .93                        | 44                                   | .11                                 | .080                       | 70                                   | .02                                 | .14                        | 44                                   | .02                                 |
| 20    | .55                        | 44                                   | .07                                 | .050                       | 61                                   | .01                                 | .12                        | 44                                   | .01                                 |
| 21    | .50                        | 38                                   | .05                                 | .010                       | 55                                   | .00                                 | .27                        | 44                                   | .03                                 |
| 22    | .46                        | 37                                   | .05                                 | .000                       | 58                                   | .00                                 | 1.1                        | 44                                   | .13                                 |
| 23    | .44                        | 38                                   | .05                                 | .000                       | 64                                   | .00                                 | 1.2                        | 45                                   | .15                                 |
| 24    | .43                        | 40                                   | .05                                 | .000                       | 65                                   | .00                                 | .76                        | 46                                   | .09                                 |
| 25    | .42                        | 44                                   | .05                                 | .000                       | 64                                   | .00                                 | .72                        | 48                                   | .09                                 |
| 26    | .41                        | 48                                   | .05                                 | .000                       | 61                                   | .00                                 | .81                        | 50                                   | .11                                 |
| 27    | .40                        | 49                                   | .05                                 | .000                       | 56                                   | .00                                 | .49                        | 52                                   | .07                                 |
| 28    | .40                        | 48                                   | .05                                 | .000                       | 53                                   | .00                                 | .33                        | 52                                   | .05                                 |
| 29    | .80                        | 51                                   | .11                                 | .000                       | 51                                   | .00                                 | .26                        | 52                                   | .04                                 |
| 30    | 1.9                        | 58                                   | .31                                 | .000                       | 51                                   | .00                                 | .23                        | 53                                   | .03                                 |
| 31    | 1.5                        | 64                                   | .25                                 | .000                       | 57                                   | .00                                 | ---                        | ---                                  | ---                                 |

07283000 SKUNA RIVER AT BRUCE, MS  
(National Water-Quality Assessment station)

LOCATION.--Lat 33°58'25", long 89°20'52", in SE1/4 SW1/4 sec.6, T.13 S., R.1 W., Chickasaw Meridian, Calhoun County, Hydrologic Unit 08030205, on left bank on downstream side of bridge on State Highway 9, 1.0 mi south of Bruce.

DRAINAGE AREA.--254 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1947 to current year. Prior to March 1948 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 1920: 1958(P), 1959-60(M).

GAGE.--Water-stage recorder. Datum of gage is 228.45 ft above sea level (levels U. S. Army Corps of Engineers). Prior to Jan. 1, 1972, at datum 10.30 ft higher. October 1947 to Aug. 30, 1948, nonrecording gage, Aug. 31, 1948 to Mar. 23, 1955, water-stage recorder, and Mar. 24, 1955 to Sept. 12, 1958, nonrecording gage at same site.

REMARKS.--Estimated daily discharges: Oct. 23-26 and Dec. 1-2. Records fair except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 11,000 ft<sup>3</sup>/s (revised) and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 2 | 1215 | *20,200                           | *25.45              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|------|------|------|-------|-------|------|--------|-------|-------|-------|
| 1     | 8.3   | 17    | e11  | 10   | 64   | 42    | 135   | 25   | 15     | 12    | 15    | 4.9   |
| 2     | 7.9   | 15    | e12  | 10   | 45   | 33    | 15000 | 23   | 13     | 9.7   | 12    | 4.9   |
| 3     | 7.6   | 11    | 13   | 11   | 37   | 28    | 10500 | 74   | 56     | 8.6   | 9.7   | 4.8   |
| 4     | 7.7   | 9.9   | 13   | 18   | 32   | 25    | 3490  | 44   | 276    | 8.0   | 11    | 4.9   |
| 5     | 7.4   | 9.7   | 18   | 15   | 28   | 23    | 718   | 42   | 366    | 7.5   | 9.1   | 4.7   |
| 6     | 7.4   | 9.6   | 20   | 12   | 25   | 21    | 426   | 127  | 125    | 7.2   | 7.8   | 4.7   |
| 7     | 7.3   | 9.6   | 15   | 11   | 24   | 19    | 305   | 41   | 47     | 6.9   | 7.1   | 5.6   |
| 8     | 7.4   | 9.5   | 13   | 12   | 23   | 18    | 1130  | 27   | 30     | 6.7   | 7.8   | 8.3   |
| 9     | 18    | 9.5   | 13   | 35   | 22   | 40    | 462   | 22   | 22     | 6.3   | 9.6   | 7.4   |
| 10    | 15    | 9.4   | 44   | 36   | 21   | 65    | 275   | 86   | 18     | 6.1   | 8.1   | 6.4   |
| 11    | 10    | 9.6   | 28   | 19   | 21   | 717   | 194   | 29   | 16     | 6.2   | 8.7   | 5.8   |
| 12    | 8.6   | 9.2   | 52   | 15   | 20   | 218   | 161   | 23   | 14     | 6.0   | 7.1   | 5.9   |
| 13    | 8.1   | 9.3   | 286  | 15   | 29   | 89    | 894   | 19   | 13     | 6.1   | 6.3   | 6.6   |
| 14    | 8.1   | 9.6   | 57   | 15   | 188  | 56    | 591   | 16   | 13     | 6.2   | 6.0   | 5.7   |
| 15    | 8.0   | 9.6   | 24   | 12   | 77   | 43    | 310   | 14   | 12     | 6.0   | 5.7   | 4.8   |
| 16    | 7.8   | 9.4   | 16   | 11   | 41   | 413   | 199   | 14   | 11     | 5.9   | 5.6   | 4.0   |
| 17    | 8.1   | 9.6   | 13   | 12   | 594  | 508   | 137   | 13   | 12     | 5.7   | 5.4   | 3.9   |
| 18    | 8.1   | 9.7   | 12   | 12   | 713  | 156   | 99    | 12   | 60     | 5.9   | 5.3   | 4.0   |
| 19    | 8.3   | 10    | 12   | 12   | 238  | 4170  | 80    | 12   | 42     | 6.2   | 5.2   | 4.1   |
| 20    | 8.6   | 19    | 11   | 12   | 117  | 2430  | 68    | 12   | 21     | 6.1   | 5.1   | 4.6   |
| 21    | 8.3   | 18    | 14   | 11   | 64   | 444   | 59    | 18   | 15     | 7.8   | 5.0   | 5.6   |
| 22    | 8.5   | 14    | 14   | 15   | 46   | 230   | 55    | 15   | 13     | 6.9   | 5.0   | 5.0   |
| 23    | e8.0  | 12    | 13   | 61   | 36   | 141   | 70    | 13   | 12     | 7.0   | 5.0   | 5.3   |
| 24    | e7.9  | 11    | 12   | 44   | 31   | 99    | 62    | 11   | 11     | 7.6   | 5.2   | 5.0   |
| 25    | e7.8  | 12    | 11   | 23   | 27   | 77    | 59    | 11   | 9.7    | 6.7   | 5.2   | 5.1   |
| 26    | e8.0  | 12    | 10   | 16   | 28   | 68    | 46    | 345  | 9.0    | 5.7   | 5.4   | 4.7   |
| 27    | 8.4   | 12    | 10   | 14   | 278  | 126   | 37    | 75   | 11     | 5.3   | 5.5   | 4.2   |
| 28    | 8.4   | 11    | 10   | 25   | 130  | 77    | 35    | 208  | 38     | 5.3   | 5.2   | 4.2   |
| 29    | 8.4   | 11    | 10   | 94   | 61   | 51    | 32    | 51   | 32     | 5.4   | 5.0   | 4.3   |
| 30    | 8.2   | 10    | 10   | 194  | ---  | 45    | 30    | 27   | 17     | 12    | 4.8   | 4.2   |
| 31    | 8.1   | ---   | 10   | 112  | ---  | 44    | ---   | 20   | ---    | 15    | 5.2   | ---   |
| TOTAL | 267.7 | 338.2 | 807  | 914  | 3060 | 10516 | 35659 | 1469 | 1349.7 | 224.0 | 214.1 | 153.6 |
| MEAN  | 8.64  | 11.3  | 26.0 | 29.5 | 106  | 339   | 1189  | 47.4 | 45.0   | 7.23  | 6.91  | 5.12  |
| MAX   | 18    | 19    | 286  | 194  | 713  | 4170  | 15000 | 345  | 366    | 15    | 15    | 8.3   |
| MIN   | 7.3   | 9.2   | 10   | 10   | 20   | 18    | 30    | 11   | 9.0    | 5.3   | 4.8   | 3.9   |
| CFSM  | .03   | .04   | .10  | .12  | .42  | 1.34  | 4.68  | .19  | .18    | .03   | .03   | .02   |
| IN.   | .04   | .05   | .12  | .13  | .45  | 1.54  | 5.22  | .22  | .20    | .03   | .03   | .02   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2000, BY WATER YEAR (WY)

|      | MEAN | 46.0 | 239  | 498  | 613  | 741  | 848  | 653  | 349  | 221  | 98.8 | 62.3 | 72.4 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 389  | 1922 | 3035 | 2091 | 2703 | 3426 | 2356 | 1729 | 1825 | 661  | 460  | 895  |      |
| (WY) | 1985 | 1958 | 1983 | 1949 | 1991 | 1973 | 1991 | 1997 | 1997 | 1989 | 1950 | 1958 |      |
| MIN  | 3.23 | 5.67 | 10.6 | 18.8 | 76.5 | 58.4 | 26.3 | 14.8 | 4.99 | 4.85 | 1.72 | 1.90 |      |
| (WY) | 1954 | 1956 | 1966 | 1986 | 1978 | 1954 | 1986 | 1965 | 1988 | 1952 | 1954 | 1954 |      |

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1948 - 2000

|                          | ANNUAL TOTAL | 142518.9 | 54972.3 |        |
|--------------------------|--------------|----------|---------|--------|
| ANNUAL MEAN              | 390          | 150      | 368     |        |
| HIGHEST ANNUAL MEAN      |              |          | 767     | 1991   |
| LOWEST ANNUAL MEAN       |              |          | 74.6    | 1981   |
| HIGHEST DAILY MEAN       | 15100        | Jan 23   | 15000   | Apr 2  |
| LOWEST DAILY MEAN        | 7.0          | Aug 20   | 3.9     | Sep 17 |
| ANNUAL SEVEN-DAY MINIMUM | 7.2          | Aug 17   | 4.4     | Sep 15 |
| INSTANTANEOUS PEAK FLOW  |              |          | 20200   | Apr 2  |
| INSTANTANEOUS PEAK STAGE |              |          | 25.45   | Apr 2  |
| ANNUAL RUNOFF (CFSM)     | 1.54         |          | .59     |        |
| ANNUAL RUNOFF (INCHES)   | 20.87        |          | 8.05    |        |
| 10 PERCENT EXCEEDS       | 726          |          | 138     |        |
| 50 PERCENT EXCEEDS       | 24           |          | 12      |        |
| 90 PERCENT EXCEEDS       | 7.9          |          | 5.4     |        |

e Estimated

## 07285500 YALOBUSHA RIVER AT GRENADA, MS

LOCATION.--Lat 33°47'18", long 89°48'36", in SW1/4 NE1/4 sec. 7, T.22 N., R.5 E., Choctaw Meridian, Grenada County, Hydrologic Unit 08030205, on downstream left bridge seat of U.S. Highway 51 bridge.

DRAINAGE AREA.--1570 mi<sup>2</sup>, approximately, U.S. Army Corps of Engineers

PERIOD OF RECORD.--February 1989 to current year. July 1, 1929, to date, stage data available; February 1929 to date, measured discharge available; and December 1, 1931, to June 30, 1953, daily discharge available in U.S. Army Corps of Engineers records. Prior to October 1, 1992, published as "07285510 Yalobusha River at Grenada, MS."

GAGE.--Water stage recorder. Datum of gage is 152.03 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to June 23, 1993, water-stage recorder at site 0.5 mi downstream at datum 3.35 ft lower.

REMARKS.--No estimated daily discharges. Records good. Regulated by Grenada Lake Spillway. Satellite telemeter at Station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 14, 1948, reached an elevation of 182.81 ft above sea level at site 2600 ft upstream, discharge 78,900 ft<sup>3</sup>/s from records of U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB  | MAR   | APR   | MAY   | JUN   | JUL  | AUG   | SEP   |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|-------|
| 1     | 2290  | 1770  | 1130  | 438   | 329  | 236   | 807   | 770   | 676   | 315  | 1160  | 1770  |
| 2     | 2280  | 1720  | 837   | 439   | 311  | 232   | 15300 | 768   | 673   | 291  | 2610  | 1460  |
| 3     | 2280  | 1670  | 787   | 587   | 300  | 224   | 11600 | 771   | 792   | 284  | 2510  | 1460  |
| 4     | 2270  | 1630  | 751   | 549   | 295  | 220   | 6280  | 806   | 1420  | 278  | 2500  | 1450  |
| 5     | 2260  | 1600  | 785   | 424   | 288  | 217   | 1890  | 771   | 1230  | 276  | 2490  | 1450  |
| 6     | 2250  | 1570  | 611   | 407   | 282  | 217   | 1340  | 782   | 880   | 268  | 2490  | 1440  |
| 7     | 2240  | 1540  | 409   | 401   | 281  | 217   | 1090  | 753   | 736   | 268  | 2480  | 1440  |
| 8     | 2240  | 1510  | 375   | 418   | 202  | 215   | 1220  | 745   | 701   | 270  | 2500  | 1440  |
| 9     | 2300  | 2350  | 375   | 520   | 162  | 221   | 903   | 741   | 691   | 270  | 2240  | 1440  |
| 10    | 2290  | 3020  | 484   | 500   | 161  | 665   | 723   | 742   | 679   | 268  | 2450  | 1430  |
| 11    | 2260  | 2940  | 451   | 430   | 159  | 1660  | 572   | 729   | 673   | 268  | 2470  | 1430  |
| 12    | 2250  | 2870  | 460   | 410   | 157  | 522   | 613   | 726   | 670   | 266  | 2180  | 1430  |
| 13    | 2250  | 2810  | 779   | 415   | 169  | 335   | 1540  | 721   | 322   | 263  | 2460  | 1430  |
| 14    | 2230  | 2750  | 524   | 401   | 238  | 283   | 1470  | 718   | 280   | 270  | 2460  | 1420  |
| 15    | 2230  | 2680  | 444   | 393   | 198  | 265   | 1130  | 711   | 280   | 262  | 2460  | 1420  |
| 16    | 2220  | 2610  | 416   | 388   | 175  | 375   | 1020  | 710   | 280   | 260  | 2470  | 1410  |
| 17    | 2210  | 2540  | 523   | 389   | 190  | 465   | 958   | 705   | 278   | 261  | 2470  | 1400  |
| 18    | 2200  | 2480  | 636   | 365   | 234  | 298   | 918   | 699   | 416   | 262  | 2460  | 739   |
| 19    | 2190  | 2420  | 628   | 252   | 273  | 3890  | 889   | 700   | 546   | 265  | 2460  | 491   |
| 20    | 2170  | 2430  | 634   | 217   | 258  | 2380  | 874   | 702   | 389   | 260  | 2460  | 1410  |
| 21    | 2130  | 2370  | 635   | 137   | 233  | 709   | 850   | 703   | 318   | 260  | 2450  | 1420  |
| 22    | 2080  | 2290  | 635   | 138   | 227  | 475   | 832   | 698   | 319   | 258  | 2450  | 1410  |
| 23    | 2050  | 2230  | 621   | 160   | 220  | 386   | 824   | 691   | 328   | 257  | 2350  | 1410  |
| 24    | 1990  | 2170  | 608   | 173   | 218  | 343   | 855   | 689   | 304   | 254  | 2110  | 1400  |
| 25    | 1950  | 2130  | 600   | 296   | 215  | 318   | 850   | 686   | 296   | 253  | 2100  | 1410  |
| 26    | 1910  | 2070  | 593   | 287   | 231  | 305   | 822   | 693   | 288   | 253  | 2100  | 1400  |
| 27    | 1870  | 2010  | 591   | 283   | 339  | 477   | 808   | 694   | 283   | 254  | 2090  | 1390  |
| 28    | 1840  | 1950  | 528   | 323   | 297  | 402   | 798   | 741   | 359   | 253  | 2090  | 1390  |
| 29    | 1800  | 1900  | 440   | 412   | 248  | 323   | 794   | 707   | 781   | 253  | 2080  | 1390  |
| 30    | 1770  | 1610  | 439   | 427   | ---  | 471   | 778   | 685   | 409   | 305  | 2080  | 1380  |
| 31    | 1740  | ---   | 441   | 359   | ---  | 393   | ---   | 680   | ---   | 277  | 2070  | ---   |
| TOTAL | 66040 | 65640 | 18170 | 11338 | 6890 | 17739 | 59348 | 22437 | 16297 | 8302 | 71750 | 41360 |
| MEAN  | 2130  | 2188  | 586   | 366   | 238  | 572   | 1978  | 724   | 543   | 268  | 2315  | 1379  |
| MAX   | 2300  | 3020  | 1130  | 587   | 339  | 3890  | 15300 | 806   | 1420  | 315  | 2610  | 1770  |
| MIN   | 1740  | 1510  | 375   | 137   | 157  | 215   | 572   | 680   | 278   | 253  | 1160  | 491   |
| CFSM  | 1.37  | 1.41  | .38   | .24   | .15  | .37   | 1.28  | .47   | .35   | .17  | 1.49  | .89   |
| IN.   | 1.58  | 1.58  | .44   | .27   | .17  | .43   | 1.42  | .54   | .39   | .20  | 1.72  | .99   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

|      | MEAN | 2640 | 2787 | 3347 | 4298 | 3222 | 2906 | 2266 | 1963 | 1615 | 1692 | 2712 | 2903 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 5075 | 4963 | 6461 | 6227 | 5490 | 5756 | 4228 | 9529 | 5646 | 4904 | 4808 | 5652 |      |
| (WY) | 1998 | 1990 | 1990 | 1999 | 1999 | 1999 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 |
| MIN  | 810  | 1909 | 586  | 366  | 238  | 572  | 365  | 189  | 320  | 268  | 382  | 848  |      |
| (WY) | 1999 | 1996 | 2000 | 2000 | 2000 | 2000 | 1992 | 1992 | 1993 | 2000 | 1992 | 1992 | 1992 |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1989 - 2000

|                          |        |        |       |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 881706 | 405311 | 2652  |
| ANNUAL MEAN              | 2416   | 1107   | 4441  |
| HIGHEST ANNUAL MEAN      |        |        | 1991  |
| LOWEST ANNUAL MEAN       |        |        | 2000  |
| HIGHEST DAILY MEAN       | 9810   | Jan 23 | 21900 |
| LOWEST DAILY MEAN        | 266    | May 3  | 30    |
| ANNUAL SEVEN-DAY MINIMUM | 317    | Apr 28 | 33    |
| INSTANTANEOUS PEAK FLOW  |        |        | 23000 |
| INSTANTANEOUS PEAK STAGE |        |        | 27.54 |
| ANNUAL RUNOFF (CFSM)     | 1.56   | 23.52  | 1.71  |
| ANNUAL RUNOFF (INCHES)   | 21.16  | 9.73   | 23.25 |
| 10 PERCENT EXCEEDS       | 5780   | 2360   | 5620  |
| 50 PERCENT EXCEEDS       | 2110   | 706    | 2340  |
| 90 PERCENT EXCEEDS       | 407    | 253    | 302   |

07287150 ABIACA CREEK NEAR SEVEN PINES, MS

LOCATION.--Lat 33°20'24", long 90°09'04", in NW¼ SE¼ sec.13, T.17 N., R.1 E., Choctaw Meridian, Carroll County, Hydrologic Unit 08030206, on right bank at upstream side of bridge on county road, 5.0 mi northeast of Cruger, and 4.0 mi southwest of Seven Pines.

DRAINAGE AREA.--95.2 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1992-97, 1999.

PERIOD OF DAILY RECORD.--

DISCHARGE: October 1991 to current year.

SUSPENDED SEDIMENT CONCENTRATION: October 1991 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1991 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 134.28 ft above sea level. October 28, 1955 to present, discharge measurements and gage height record at same site and datum in files of U.S. Army Corps of Engineers, Vicksburg District. Automatic pumping sediment sampler since October 1991.

REMARKS.--Estimated daily discharges: May 16-20, 23, 24, June 20, 23-28. Discharge records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

AVERAGE DISCHARGE.--9 years, 115 ft<sup>3</sup>/s, 16.4 in/yr.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum observed, 6,080 ft<sup>3</sup>/s, Apr. 2, 2000, maximum gage height, 20.48 ft, Apr. 2, 2000; minimum daily mean, 18 ft<sup>3</sup>/s, Sept. 30, 2000.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 3,410 mg/L, May 17, 2000; minimum daily mean, 6 mg/L, Oct. 9, 1992.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 24,200 tons, Mar. 9, 1994; minimum daily, 0.56 ton, Oct. 9, 1992.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 6,080 ft<sup>3</sup>/s, Apr. 2, maximum gage height, 20.48 ft, Apr. 2; minimum daily mean, 18 ft<sup>3</sup>/s, Sept. 30.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 3,410 mg/L, May 17; minimum daily mean, 25 mg/L, Nov. 12.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 12,700 tons, Apr. 2; minimum daily, 1.6 tons, Nov. 12-13.

## 07287150 ABIACA CREEK NEAR SEVEN PINES, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY     | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|---------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| OCTOBER |                            |                                      | NOVEMBER                            |                            |                                      | DECEMBER                            |                            |                                      |                                     |
| 1       | 32                         | 663                                  | 59                                  | 106                        | 1000                                 | 417                                 | 26                         | 176                                  | 12                                  |
| 2       | 30                         | 288                                  | 23                                  | 43                         | 131                                  | 15                                  | 28                         | 59                                   | 4.5                                 |
| 3       | 32                         | 166                                  | 14                                  | 39                         | 45                                   | 4.7                                 | 35                         | 214                                  | 22                                  |
| 4       | 31                         | 124                                  | 10                                  | 32                         | 41                                   | 3.6                                 | 29                         | 80                                   | 6.3                                 |
| 5       | 31                         | 121                                  | 10                                  | 31                         | 39                                   | 3.3                                 | 40                         | 79                                   | 8.5                                 |
| 6       | 29                         | 221                                  | 18                                  | 34                         | 37                                   | 3.4                                 | 34                         | 102                                  | 9.4                                 |
| 7       | 27                         | 126                                  | 9.1                                 | 32                         | 35                                   | 3.0                                 | 32                         | 235                                  | 20                                  |
| 8       | 26                         | 107                                  | 7.6                                 | 31                         | 33                                   | 2.8                                 | 24                         | 356                                  | 23                                  |
| 9       | 35                         | 105                                  | 9.9                                 | 27                         | 32                                   | 2.4                                 | 30                         | 188                                  | 15                                  |
| 10      | 34                         | 104                                  | 9.7                                 | 26                         | 31                                   | 2.2                                 | 32                         | 110                                  | 9.5                                 |
| 11      | 33                         | 99                                   | 8.8                                 | 30                         | 28                                   | 2.3                                 | 27                         | 104                                  | 7.6                                 |
| 12      | 29                         | 82                                   | 6.4                                 | 25                         | 25                                   | 1.6                                 | 44                         | 152                                  | 24                                  |
| 13      | 29                         | 72                                   | 5.6                                 | 23                         | 26                                   | 1.6                                 | 104                        | 294                                  | 86                                  |
| 14      | 29                         | 71                                   | 5.6                                 | 30                         | 75                                   | 6.0                                 | 57                         | 193                                  | 30                                  |
| 15      | 31                         | 71                                   | 5.9                                 | 28                         | 136                                  | 10                                  | 47                         | 154                                  | 20                                  |
| 16      | 30                         | 73                                   | 5.9                                 | 22                         | 45                                   | 2.7                                 | 42                         | 160                                  | 18                                  |
| 17      | 32                         | 75                                   | 6.5                                 | 20                         | 35                                   | 1.9                                 | 40                         | 164                                  | 18                                  |
| 18      | 32                         | 73                                   | 6.4                                 | 21                         | 36                                   | 2.0                                 | 34                         | 164                                  | 15                                  |
| 19      | 28                         | 62                                   | 4.7                                 | 23                         | 71                                   | 4.9                                 | 38                         | 164                                  | 17                                  |
| 20      | 30                         | 54                                   | 4.3                                 | 29                         | 186                                  | 15                                  | 33                         | 187                                  | 17                                  |
| 21      | 27                         | 53                                   | 3.9                                 | 31                         | 167                                  | 14                                  | 39                         | 404                                  | 41                                  |
| 22      | 27                         | 53                                   | 3.9                                 | 26                         | 119                                  | 8.5                                 | 37                         | 531                                  | 55                                  |
| 23      | 31                         | 55                                   | 4.7                                 | 21                         | 62                                   | 3.5                                 | 34                         | 154                                  | 14                                  |
| 24      | 33                         | 58                                   | 5.1                                 | 27                         | 316                                  | 23                                  | 39                         | 112                                  | 12                                  |
| 25      | 31                         | 49                                   | 4.2                                 | 26                         | 171                                  | 12                                  | 36                         | 87                                   | 8.4                                 |
| 26      | 30                         | 42                                   | 3.4                                 | 24                         | 67                                   | 4.5                                 | 35                         | 68                                   | 6.4                                 |
| 27      | 27                         | 43                                   | 3.2                                 | 21                         | 50                                   | 2.9                                 | 33                         | 55                                   | 4.9                                 |
| 28      | 34                         | 45                                   | 4.1                                 | 23                         | 44                                   | 2.8                                 | 30                         | 48                                   | 3.9                                 |
| 29      | 31                         | 44                                   | 3.7                                 | 19                         | 40                                   | 2.1                                 | 30                         | 48                                   | 3.9                                 |
| 30      | 30                         | 44                                   | 3.5                                 | 22                         | 53                                   | 3.3                                 | 32                         | 81                                   | 6.8                                 |
| 31      | 37                         | 61                                   | 7.0                                 | ---                        | ---                                  | ---                                 | 34                         | 135                                  | 12                                  |
| JANUARY |                            |                                      | FEBRUARY                            |                            |                                      | MARCH                               |                            |                                      |                                     |
| 1       | 35                         | 128                                  | 12                                  | 41                         | 56                                   | 6.1                                 | 34                         | 167                                  | 16                                  |
| 2       | 34                         | 108                                  | 9.9                                 | 39                         | 46                                   | 5.0                                 | 33                         | 129                                  | 11                                  |
| 3       | 35                         | 2260                                 | 211                                 | 37                         | 47                                   | 4.7                                 | 36                         | 99                                   | 9.6                                 |
| 4       | 33                         | 240                                  | 23                                  | 36                         | 54                                   | 5.2                                 | 33                         | 84                                   | 7.3                                 |
| 5       | 30                         | 174                                  | 14                                  | 39                         | 51                                   | 5.4                                 | 36                         | 71                                   | 6.9                                 |
| 6       | 32                         | 169                                  | 14                                  | 37                         | 47                                   | 4.7                                 | 32                         | 65                                   | 5.6                                 |
| 7       | 32                         | 151                                  | 13                                  | 34                         | 43                                   | 4.0                                 | 29                         | 75                                   | 6.0                                 |
| 8       | 35                         | 100                                  | 9.5                                 | 35                         | 39                                   | 3.7                                 | 33                         | 89                                   | 7.9                                 |
| 9       | 48                         | 66                                   | 8.6                                 | 35                         | 36                                   | 3.4                                 | 34                         | 107                                  | 9.8                                 |
| 10      | 38                         | 59                                   | 6.0                                 | 34                         | 43                                   | 4.0                                 | 180                        | 657                                  | 1350                                |
| 11      | 36                         | 119                                  | 11                                  | 37                         | 52                                   | 5.2                                 | 684                        | 1420                                 | 3100                                |
| 12      | 36                         | 184                                  | 18                                  | 36                         | 50                                   | 4.9                                 | 185                        | 418                                  | 223                                 |
| 13      | 34                         | 136                                  | 13                                  | 39                         | 48                                   | 5.0                                 | 86                         | 242                                  | 57                                  |
| 14      | 31                         | 105                                  | 8.8                                 | 39                         | 47                                   | 4.9                                 | 66                         | 178                                  | 32                                  |
| 15      | 34                         | 103                                  | 9.5                                 | 39                         | 51                                   | 5.3                                 | 58                         | 143                                  | 22                                  |
| 16      | 35                         | 102                                  | 9.6                                 | 36                         | 49                                   | 4.7                                 | 58                         | 144                                  | 22                                  |
| 17      | 33                         | 101                                  | 9.0                                 | 38                         | 55                                   | 5.6                                 | 53                         | 328                                  | 46                                  |
| 18      | 32                         | 102                                  | 8.9                                 | 37                         | 61                                   | 6.1                                 | 50                         | 337                                  | 46                                  |
| 19      | 33                         | 264                                  | 24                                  | 39                         | 55                                   | 5.8                                 | 764                        | 1770                                 | 4150                                |
| 20      | 34                         | 172                                  | 16                                  | 37                         | 49                                   | 4.9                                 | 645                        | 596                                  | 1160                                |
| 21      | 37                         | 206                                  | 20                                  | 33                         | 44                                   | 4.0                                 | 249                        | 277                                  | 194                                 |
| 22      | 37                         | 152                                  | 15                                  | 32                         | 45                                   | 3.8                                 | 125                        | 166                                  | 57                                  |
| 23      | 34                         | 109                                  | 9.9                                 | 33                         | 47                                   | 4.2                                 | 87                         | 157                                  | 37                                  |
| 24      | 34                         | 112                                  | 10                                  | 32                         | 53                                   | 4.6                                 | 72                         | 196                                  | 38                                  |
| 25      | 34                         | 282                                  | 25                                  | 33                         | 59                                   | 5.3                                 | 64                         | 174                                  | 30                                  |
| 26      | 35                         | 421                                  | 40                                  | 35                         | 61                                   | 5.8                                 | 60                         | 150                                  | 24                                  |
| 27      | 38                         | 165                                  | 17                                  | 45                         | 60                                   | 7.3                                 | 135                        | 442                                  | 174                                 |
| 28      | 45                         | 66                                   | 8.1                                 | 37                         | 70                                   | 6.9                                 | 77                         | 186                                  | 40                                  |
| 29      | 46                         | 54                                   | 6.8                                 | 34                         | 121                                  | 11                                  | 66                         | 107                                  | 19                                  |
| 30      | 45                         | 49                                   | 5.9                                 | ---                        | ---                                  | ---                                 | 190                        | 341                                  | 208                                 |
| 31      | 41                         | 47                                   | 5.3                                 | ---                        | ---                                  | ---                                 | 84                         | 137                                  | 31                                  |

07287150 ABIACA CREEK NEAR SEVEN PINES, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY   | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| APRIL |                            |                                      | MAY                                 |                            |                                      | JUNE                                |                            |                                      |                                     |
| 1     | 215                        | 355                                  | 772                                 | 45                         | 130                                  | 16                                  | 28                         | 57                                   | 4.3                                 |
| 2     | 4470                       | 1120                                 | 12700                               | 44                         | 410                                  | 47                                  | 28                         | 87                                   | 6.6                                 |
| 3     | 3730                       | 1190                                 | 12200                               | 41                         | 712                                  | 79                                  | 30                         | 109                                  | 8.8                                 |
| 4     | 1720                       | 1100                                 | 5080                                | 45                         | 259                                  | 32                                  | 40                         | 134                                  | 14                                  |
| 5     | 1210                       | 747                                  | 2460                                | 47                         | 93                                   | 12                                  | 38                         | 172                                  | 17                                  |
| 6     | 1130                       | 578                                  | 1760                                | 44                         | 79                                   | 9.3                                 | 34                         | 243                                  | 22                                  |
| 7     | 1080                       | 511                                  | 1490                                | 42                         | 78                                   | 8.8                                 | 34                         | 289                                  | 27                                  |
| 8     | 956                        | 578                                  | 1530                                | 38                         | 77                                   | 8.0                                 | 34                         | 222                                  | 20                                  |
| 9     | 568                        | 292                                  | 458                                 | 35                         | 98                                   | 9.2                                 | 28                         | 167                                  | 13                                  |
| 10    | 355                        | 191                                  | 184                                 | 36                         | 478                                  | 47                                  | 30                         | 126                                  | 10                                  |
| 11    | 257                        | 164                                  | 114                                 | 35                         | 327                                  | 31                                  | 34                         | 95                                   | 8.6                                 |
| 12    | 181                        | 319                                  | 155                                 | 35                         | 193                                  | 18                                  | 31                         | 98                                   | 7.9                                 |
| 13    | 135                        | 191                                  | 70                                  | 35                         | 138                                  | 13                                  | 29                         | 220                                  | 17                                  |
| 14    | 120                        | 177                                  | 57                                  | 37                         | 113                                  | 11                                  | 31                         | 462                                  | 38                                  |
| 15    | 99                         | 157                                  | 42                                  | 35                         | 185                                  | 17                                  | 27                         | 811                                  | 58                                  |
| 16    | 92                         | 136                                  | 34                                  | 32                         | 1360                                 | 118                                 | 27                         | 517                                  | 38                                  |
| 17    | 80                         | 123                                  | 27                                  | 33                         | 3410                                 | 307                                 | 32                         | 134                                  | 12                                  |
| 18    | 71                         | 123                                  | 23                                  | 30                         | 639                                  | 52                                  | 46                         | 232                                  | 30                                  |
| 19    | 65                         | 168                                  | 30                                  | 30                         | 116                                  | 9.4                                 | 33                         | 150                                  | 14                                  |
| 20    | 65                         | 467                                  | 81                                  | 33                         | 130                                  | 12                                  | 28                         | 118                                  | 9.0                                 |
| 21    | 61                         | 788                                  | 131                                 | 43                         | 197                                  | 23                                  | 30                         | 101                                  | 8.2                                 |
| 22    | 65                         | 400                                  | 70                                  | 37                         | 228                                  | 23                                  | 30                         | 103                                  | 8.3                                 |
| 23    | 63                         | 189                                  | 32                                  | 31                         | 128                                  | 11                                  | 28                         | 104                                  | 7.9                                 |
| 24    | 58                         | 99                                   | 16                                  | 31                         | 75                                   | 6.3                                 | 27                         | 97                                   | 7.1                                 |
| 25    | 57                         | 300                                  | 46                                  | 31                         | 86                                   | 7.2                                 | 39                         | 91                                   | 9.6                                 |
| 26    | 56                         | 572                                  | 87                                  | 30                         | 99                                   | 8.0                                 | 31                         | 157                                  | 13                                  |
| 27    | 53                         | 129                                  | 18                                  | 34                         | 93                                   | 8.6                                 | 29                         | 926                                  | 72                                  |
| 28    | 50                         | 152                                  | 20                                  | 47                         | 86                                   | 11                                  | 33                         | 1650                                 | 147                                 |
| 29    | 49                         | 129                                  | 17                                  | 35                         | 81                                   | 7.7                                 | 35                         | 176                                  | 15                                  |
| 30    | 47                         | 106                                  | 14                                  | 33                         | 79                                   | 7.0                                 | 35                         | 117                                  | 11                                  |
| 31    | ---                        | ---                                  | ---                                 | 29                         | 71                                   | 5.6                                 | ---                        | ---                                  | ---                                 |
| JULY  |                            |                                      | AUGUST                              |                            |                                      | SEPTEMBER                           |                            |                                      |                                     |
| 1     | 34                         | 98                                   | 9.0                                 | 36                         | 193                                  | 19                                  | 20                         | 91                                   | 4.8                                 |
| 2     | 32                         | 81                                   | 6.9                                 | 29                         | 231                                  | 18                                  | 20                         | 81                                   | 4.4                                 |
| 3     | 33                         | 68                                   | 6.0                                 | 27                         | 169                                  | 13                                  | 25                         | 77                                   | 5.2                                 |
| 4     | 30                         | 61                                   | 5.0                                 | 26                         | 120                                  | 8.6                                 | 22                         | 74                                   | 4.5                                 |
| 5     | 29                         | 58                                   | 4.5                                 | 25                         | 98                                   | 6.6                                 | 21                         | 70                                   | 3.9                                 |
| 6     | 25                         | 105                                  | 7.2                                 | 29                         | 85                                   | 6.7                                 | 19                         | 69                                   | 3.6                                 |
| 7     | 28                         | 170                                  | 13                                  | 27                         | 75                                   | 5.5                                 | 23                         | 74                                   | 4.7                                 |
| 8     | 36                         | 147                                  | 14                                  | 31                         | 125                                  | 11                                  | 25                         | 77                                   | 5.2                                 |
| 9     | 36                         | 145                                  | 14                                  | 26                         | 98                                   | 7.0                                 | 26                         | 74                                   | 5.1                                 |
| 10    | 31                         | 161                                  | 13                                  | 23                         | 77                                   | 4.7                                 | 25                         | 70                                   | 4.8                                 |
| 11    | 26                         | 242                                  | 17                                  | 26                         | 85                                   | 5.9                                 | 24                         | 67                                   | 4.3                                 |
| 12    | 27                         | 362                                  | 27                                  | 22                         | 88                                   | 5.3                                 | 83                         | 689                                  | 378                                 |
| 13    | 28                         | 1180                                 | 95                                  | 25                         | 91                                   | 6.0                                 | 37                         | 2440                                 | 240                                 |
| 14    | 26                         | 1280                                 | 96                                  | 24                         | 75                                   | 5.0                                 | 24                         | 386                                  | 25                                  |
| 15    | 25                         | 631                                  | 42                                  | 21                         | 66                                   | 3.8                                 | 22                         | 242                                  | 14                                  |
| 16    | 27                         | 326                                  | 24                                  | 22                         | 76                                   | 4.5                                 | 21                         | 219                                  | 12                                  |
| 17    | 26                         | 225                                  | 16                                  | 22                         | 72                                   | 4.3                                 | 23                         | 201                                  | 12                                  |
| 18    | 22                         | 191                                  | 11                                  | 22                         | 66                                   | 3.8                                 | 22                         | 215                                  | 13                                  |
| 19    | 22                         | 169                                  | 9.8                                 | 22                         | 67                                   | 4.0                                 | 19                         | 240                                  | 12                                  |
| 20    | 24                         | 373                                  | 24                                  | 26                         | 69                                   | 4.8                                 | 21                         | 105                                  | 5.7                                 |
| 21    | 26                         | 507                                  | 37                                  | 24                         | 70                                   | 4.5                                 | 26                         | 116                                  | 8.1                                 |
| 22    | 23                         | 178                                  | 11                                  | 21                         | 68                                   | 3.9                                 | 20                         | 166                                  | 9.2                                 |
| 23    | 27                         | 111                                  | 8.2                                 | 22                         | 76                                   | 4.5                                 | 20                         | 138                                  | 7.4                                 |
| 24    | 25                         | 81                                   | 5.4                                 | 20                         | 117                                  | 6.3                                 | 24                         | 110                                  | 7.3                                 |
| 25    | 25                         | 84                                   | 5.6                                 | 21                         | 154                                  | 8.7                                 | 26                         | 91                                   | 6.3                                 |
| 26    | 21                         | 89                                   | 5.0                                 | 21                         | 133                                  | 7.5                                 | 23                         | 125                                  | 7.6                                 |
| 27    | 21                         | 92                                   | 5.2                                 | 26                         | 113                                  | 8.0                                 | 19                         | 197                                  | 10                                  |
| 28    | 22                         | 93                                   | 5.5                                 | 24                         | 107                                  | 6.9                                 | 20                         | 290                                  | 16                                  |
| 29    | 22                         | 104                                  | 6.5                                 | 20                         | 131                                  | 7.1                                 | 23                         | 330                                  | 21                                  |
| 30    | 48                         | 252                                  | 33                                  | 23                         | 146                                  | 9.0                                 | 18                         | 199                                  | 9.7                                 |
| 31    | 76                         | 283                                  | 66                                  | 19                         | 120                                  | 6.2                                 | ---                        | ---                                  | ---                                 |



07287160 ABIACA CREEK AT CRUGER, MS

LOCATION.--Lat 33°20'29", long 90°14'13", in NE $\frac{1}{4}$  NW $\frac{1}{4}$  sec.18, T.17 N., R.1 E., Choctaw Meridian, Holmes County, Hydrologic Unit 08030206, on left bank at downstream side of bridge on State Highway 49E, 1.0 mi north of Cruger.

DRAINAGE AREA.--95.7 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1992-97, 1999.

PERIOD OF DAILY RECORD.--

DISCHARGE: October 1991 to current year.

SUSPENDED SEDIMENT CONCENTRATION: October 1991 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1991 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 116.52 ft above sea level. Automatic pumping sediment sampler since October 1991.

REMARKS.--Estimated daily discharges: Dec. 14, 27, June 20-24, July 12-17, Sept. 2-7. Discharge records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

AVERAGE DISCHARGE.--9 years, 101.2 ft<sup>3</sup>/s, 14.36 in/yr.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 3,440 ft<sup>3</sup>/s, Apr. 23, 1995, maximum gage height, 11.81 ft, Apr. 2, 2000; minimum daily mean, 14 ft<sup>3</sup>/s, Sept. 1, 2000.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 3,320 mg/L, Feb. 15, 1992; minimum daily mean, 1.0 mg/L, Oct. 22, 1992.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 16,700 tons, Apr. 23, 1996; minimum daily, 0.13 ton, Oct. 22, 1992.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 2,970 ft<sup>3</sup>/s, Apr. 2, maximum gage height, 11.81 ft, Apr. 2; minimum daily mean, 14 ft<sup>3</sup>/s, Sept. 1.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,270 mg/L, Sept. 13; minimum daily mean, 38 mg/L Feb. 17.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 9,960 tons, Apr. 2; minimum daily, 2.0 tons, Nov. 10.

## YAZOO RIVER BASIN

151

07287160 ABIACA CREEK AT CRUGER, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY     | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|---------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| OCTOBER |                            |                                      | NOVEMBER                            |                            |                                      | DECEMBER                            |                            |                                      |                                     |
| 1       | 32                         | 187                                  | 16                                  | 87                         | 892                                  | 255                                 | 25                         | 100                                  | 6.8                                 |
| 2       | 27                         | 164                                  | 12                                  | 30                         | 342                                  | 28                                  | 27                         | 106                                  | 7.6                                 |
| 3       | 28                         | 144                                  | 11                                  | 32                         | 146                                  | 13                                  | 35                         | 281                                  | 28                                  |
| 4       | 27                         | 129                                  | 9.3                                 | 26                         | 90                                   | 6.2                                 | 29                         | 110                                  | 8.6                                 |
| 5       | 26                         | 194                                  | 14                                  | 24                         | 67                                   | 4.3                                 | 42                         | 361                                  | 44                                  |
| 6       | 24                         | 295                                  | 20                                  | 27                         | 53                                   | 3.8                                 | 40                         | 176                                  | 19                                  |
| 7       | 23                         | 245                                  | 15                                  | 27                         | 44                                   | 3.2                                 | 37                         | 129                                  | 13                                  |
| 8       | 22                         | 192                                  | 11                                  | 27                         | 39                                   | 2.8                                 | 27                         | 190                                  | 14                                  |
| 9       | 30                         | 150                                  | 12                                  | 23                         | 36                                   | 2.3                                 | 31                         | 264                                  | 22                                  |
| 10      | 31                         | 122                                  | 10                                  | 22                         | 33                                   | 2.0                                 | 35                         | 199                                  | 19                                  |
| 11      | 28                         | 111                                  | 8.4                                 | 30                         | 54                                   | 4.6                                 | 29                         | 126                                  | 9.9                                 |
| 12      | 23                         | 102                                  | 6.4                                 | 26                         | 46                                   | 3.3                                 | 41                         | 192                                  | 23                                  |
| 13      | 23                         | 94                                   | 5.8                                 | 22                         | 34                                   | 2.1                                 | 128                        | 556                                  | 202                                 |
| 14      | 23                         | 86                                   | 5.2                                 | 30                         | 118                                  | 10                                  | 70                         | 279                                  | 53                                  |
| 15      | 24                         | 79                                   | 5.1                                 | 34                         | 125                                  | 12                                  | 60                         | 153                                  | 25                                  |
| 16      | 23                         | 72                                   | 4.6                                 | 24                         | 66                                   | 4.4                                 | 47                         | 120                                  | 15                                  |
| 17      | 27                         | 66                                   | 4.8                                 | 21                         | 45                                   | 2.6                                 | 47                         | 124                                  | 16                                  |
| 18      | 28                         | 61                                   | 4.5                                 | 21                         | 57                                   | 3.2                                 | 33                         | 131                                  | 12                                  |
| 19      | 23                         | 56                                   | 3.5                                 | 26                         | 73                                   | 5.1                                 | 41                         | 154                                  | 17                                  |
| 20      | 24                         | 52                                   | 3.4                                 | 42                         | 129                                  | 15                                  | 35                         | 185                                  | 17                                  |
| 21      | 23                         | 50                                   | 3.1                                 | 45                         | 136                                  | 17                                  | 43                         | 536                                  | 65                                  |
| 22      | 22                         | 48                                   | 2.9                                 | 40                         | 142                                  | 15                                  | 40                         | 355                                  | 38                                  |
| 23      | 25                         | 46                                   | 3.1                                 | 25                         | 75                                   | 5.1                                 | 33                         | 673                                  | 63                                  |
| 24      | 30                         | 44                                   | 3.6                                 | 41                         | 198                                  | 25                                  | 39                         | 615                                  | 64                                  |
| 25      | 29                         | 43                                   | 3.4                                 | 36                         | 90                                   | 9.1                                 | 38                         | 332                                  | 34                                  |
| 26      | 26                         | 41                                   | 2.9                                 | 43                         | 96                                   | 11                                  | 36                         | 222                                  | 21                                  |
| 27      | 22                         | 41                                   | 2.4                                 | 29                         | 71                                   | 5.6                                 | 32                         | 160                                  | 14                                  |
| 28      | 27                         | 41                                   | 3.0                                 | 37                         | 61                                   | 6.1                                 | 32                         | 133                                  | 11                                  |
| 29      | 29                         | 40                                   | 3.2                                 | 34                         | 55                                   | 5.0                                 | 28                         | 115                                  | 8.6                                 |
| 30      | 24                         | 40                                   | 2.6                                 | 25                         | 67                                   | 4.5                                 | 32                         | 99                                   | 8.5                                 |
| 31      | 34                         | 44                                   | 4.2                                 | ---                        | ---                                  | ---                                 | 31                         | 220                                  | 20                                  |
| JANUARY |                            |                                      | FEBRUARY                            |                            |                                      | MARCH                               |                            |                                      |                                     |
| 1       | 34                         | 89                                   | 8.1                                 | 39                         | 56                                   | 6.0                                 | 34                         | 65                                   | 5.9                                 |
| 2       | 33                         | 86                                   | 7.7                                 | 37                         | 51                                   | 5.1                                 | 30                         | 75                                   | 6.2                                 |
| 3       | 34                         | 81                                   | 7.4                                 | 36                         | 49                                   | 4.7                                 | 35                         | 88                                   | 8.4                                 |
| 4       | 36                         | 78                                   | 7.5                                 | 34                         | 49                                   | 4.4                                 | 31                         | 101                                  | 8.4                                 |
| 5       | 28                         | 271                                  | 21                                  | 36                         | 48                                   | 4.7                                 | 36                         | 100                                  | 9.8                                 |
| 6       | 31                         | 144                                  | 12                                  | 37                         | 48                                   | 4.8                                 | 34                         | 94                                   | 8.5                                 |
| 7       | 31                         | 166                                  | 14                                  | 34                         | 48                                   | 4.4                                 | 27                         | 89                                   | 6.6                                 |
| 8       | 33                         | 106                                  | 9.4                                 | 32                         | 48                                   | 4.2                                 | 30                         | 85                                   | 6.8                                 |
| 9       | 57                         | 330                                  | 54                                  | 34                         | 48                                   | 4.3                                 | 31                         | 89                                   | 7.4                                 |
| 10      | 46                         | 399                                  | 50                                  | 32                         | 49                                   | 4.3                                 | 49                         | 112                                  | 29                                  |
| 11      | 40                         | 308                                  | 33                                  | 35                         | 58                                   | 5.4                                 | 499                        | 1290                                 | 1810                                |
| 12      | 41                         | 240                                  | 27                                  | 34                         | 69                                   | 6.3                                 | 251                        | 355                                  | 255                                 |
| 13      | 39                         | 203                                  | 21                                  | 36                         | 82                                   | 8.1                                 | 131                        | 235                                  | 85                                  |
| 14      | 34                         | 174                                  | 16                                  | 40                         | 89                                   | 9.7                                 | 91                         | 196                                  | 49                                  |
| 15      | 36                         | 149                                  | 14                                  | 37                         | 63                                   | 6.2                                 | 76                         | 165                                  | 34                                  |
| 16      | 38                         | 128                                  | 13                                  | 34                         | 40                                   | 3.6                                 | 71                         | 214                                  | 41                                  |
| 17      | 38                         | 112                                  | 11                                  | 38                         | 38                                   | 3.9                                 | 66                         | 195                                  | 35                                  |
| 18      | 32                         | 98                                   | 8.5                                 | 34                         | 42                                   | 3.8                                 | 60                         | 163                                  | 26                                  |
| 19      | 33                         | 434                                  | 39                                  | 39                         | 47                                   | 4.9                                 | 385                        | 865                                  | 1000                                |
| 20      | 34                         | 583                                  | 52                                  | 36                         | 50                                   | 4.9                                 | 755                        | 474                                  | 1030                                |
| 21      | 35                         | 314                                  | 29                                  | 34                         | 54                                   | 5.0                                 | 274                        | 274                                  | 207                                 |
| 22      | 42                         | 226                                  | 26                                  | 31                         | 59                                   | 4.9                                 | 158                        | 213                                  | 92                                  |
| 23      | 33                         | 172                                  | 15                                  | 32                         | 63                                   | 5.4                                 | 111                        | 172                                  | 52                                  |
| 24      | 44                         | 198                                  | 24                                  | 30                         | 68                                   | 5.6                                 | 92                         | 187                                  | 46                                  |
| 25      | 54                         | 293                                  | 43                                  | 31                         | 74                                   | 6.1                                 | 77                         | 184                                  | 38                                  |
| 26      | 44                         | 167                                  | 20                                  | 33                         | 77                                   | 6.9                                 | 74                         | 161                                  | 32                                  |
| 27      | 36                         | 116                                  | 12                                  | 46                         | 63                                   | 7.8                                 | 137                        | 293                                  | 112                                 |
| 28      | 59                         | 125                                  | 20                                  | 40                         | 51                                   | 5.5                                 | 105                        | 207                                  | 60                                  |
| 29      | 50                         | 88                                   | 12                                  | 34                         | 56                                   | 5.1                                 | 75                         | 146                                  | 30                                  |
| 30      | 49                         | 71                                   | 9.4                                 | ---                        | ---                                  | ---                                 | 181                        | 332                                  | 177                                 |
| 31      | 43                         | 63                                   | 7.4                                 | ---                        | ---                                  | ---                                 | 115                        | 246                                  | 78                                  |

## YAZOO RIVER BASIN

07287160 ABIACA CREEK AT CRUGER, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY   | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| APRIL |                            |                                      | MAY                                 |                            |                                      | JUNE                                |                            |                                      |                                     |
| 1     | 103                        | 224                                  | 73                                  | 45                         | 244                                  | 30                                  | 28                         | 82                                   | 6.1                                 |
| 2     | 2120                       | 1650                                 | 9960                                | 46                         | 214                                  | 27                                  | 27                         | 91                                   | 6.7                                 |
| 3     | 2590                       | 852                                  | 5950                                | 41                         | 409                                  | 45                                  | 27                         | 101                                  | 7.4                                 |
| 4     | 2100                       | 548                                  | 3200                                | 45                         | 307                                  | 37                                  | 40                         | 106                                  | 11                                  |
| 5     | 1430                       | 325                                  | 1260                                | 50                         | 131                                  | 18                                  | 46                         | 109                                  | 14                                  |
| 6     | 1190                       | 229                                  | 735                                 | 47                         | 106                                  | 13                                  | 40                         | 113                                  | 12                                  |
| 7     | 1050                       | 216                                  | 614                                 | 45                         | 92                                   | 11                                  | 37                         | 116                                  | 12                                  |
| 8     | 922                        | 260                                  | 650                                 | 42                         | 112                                  | 12                                  | 39                         | 118                                  | 13                                  |
| 9     | 513                        | 200                                  | 280                                 | 38                         | 396                                  | 41                                  | 33                         | 106                                  | 9.4                                 |
| 10    | 255                        | 186                                  | 127                                 | 37                         | 334                                  | 34                                  | 31                         | 92                                   | 7.7                                 |
| 11    | 180                        | 185                                  | 90                                  | 36                         | 190                                  | 19                                  | 36                         | 80                                   | 7.6                                 |
| 12    | 152                        | 439                                  | 178                                 | 34                         | 120                                  | 11                                  | 37                         | 70                                   | 6.9                                 |
| 13    | 130                        | 249                                  | 87                                  | 37                         | 123                                  | 12                                  | 33                         | 66                                   | 5.9                                 |
| 14    | 120                        | 234                                  | 76                                  | 38                         | 132                                  | 13                                  | 36                         | 138                                  | 14                                  |
| 15    | 99                         | 182                                  | 49                                  | 37                         | 142                                  | 14                                  | 32                         | 159                                  | 14                                  |
| 16    | 91                         | 142                                  | 35                                  | 32                         | 152                                  | 13                                  | 26                         | 186                                  | 13                                  |
| 17    | 83                         | 115                                  | 26                                  | 33                         | 164                                  | 15                                  | 31                         | 144                                  | 12                                  |
| 18    | 73                         | 108                                  | 21                                  | 30                         | 175                                  | 14                                  | 47                         | 396                                  | 54                                  |
| 19    | 67                         | 102                                  | 18                                  | 30                         | 158                                  | 13                                  | 35                         | 163                                  | 16                                  |
| 20    | 64                         | 97                                   | 17                                  | 33                         | 133                                  | 12                                  | 26                         | 82                                   | 6.1                                 |
| 21    | 60                         | 93                                   | 15                                  | 45                         | 111                                  | 14                                  | 27                         | 179                                  | 14                                  |
| 22    | 60                         | 148                                  | 24                                  | 40                         | 93                                   | 10                                  | 28                         | 60                                   | 4.7                                 |
| 23    | 59                         | 146                                  | 23                                  | 31                         | 78                                   | 6.6                                 | 27                         | 60                                   | 4.5                                 |
| 24    | 58                         | 102                                  | 16                                  | 31                         | 68                                   | 5.7                                 | 27                         | 64                                   | 4.9                                 |
| 25    | 55                         | 138                                  | 20                                  | 31                         | 68                                   | 5.6                                 | 39                         | 215                                  | 23                                  |
| 26    | 53                         | 200                                  | 29                                  | 30                         | 68                                   | 5.5                                 | 31                         | 113                                  | 9.3                                 |
| 27    | 50                         | 350                                  | 47                                  | 32                         | 69                                   | 5.9                                 | 29                         | 85                                   | 6.7                                 |
| 28    | 48                         | 419                                  | 54                                  | 49                         | 69                                   | 9.1                                 | 33                         | 311                                  | 30                                  |
| 29    | 47                         | 328                                  | 41                                  | 41                         | 70                                   | 7.7                                 | 35                         | 267                                  | 25                                  |
| 30    | 46                         | 278                                  | 35                                  | 34                         | 73                                   | 6.8                                 | 35                         | 138                                  | 13                                  |
| 31    | ---                        | ---                                  | ---                                 | 29                         | 77                                   | 6.0                                 | ---                        | ---                                  | ---                                 |
| JULY  |                            |                                      | AUGUST                              |                            |                                      | SEPTEMBER                           |                            |                                      |                                     |
| 1     | 33                         | 119                                  | 11                                  | 47                         | 272                                  | 34                                  | 14                         | 69                                   | 2.5                                 |
| 2     | 30                         | 102                                  | 8.4                                 | 31                         | 249                                  | 21                                  | 15                         | 71                                   | 2.7                                 |
| 3     | 31                         | 90                                   | 7.6                                 | 28                         | 200                                  | 15                                  | 22                         | 74                                   | 4.4                                 |
| 4     | 29                         | 85                                   | 6.8                                 | 25                         | 173                                  | 12                                  | 20                         | 76                                   | 4.1                                 |
| 5     | 29                         | 82                                   | 6.4                                 | 25                         | 150                                  | 10                                  | 19                         | 76                                   | 3.9                                 |
| 6     | 24                         | 79                                   | 5.2                                 | 27                         | 130                                  | 9.4                                 | 17                         | 76                                   | 3.5                                 |
| 7     | 27                         | 90                                   | 6.7                                 | 28                         | 118                                  | 8.7                                 | 21                         | 75                                   | 4.2                                 |
| 8     | 31                         | 189                                  | 16                                  | 26                         | 128                                  | 9.1                                 | 21                         | 75                                   | 4.3                                 |
| 9     | 38                         | 155                                  | 16                                  | 28                         | 136                                  | 10                                  | 22                         | 208                                  | 13                                  |
| 10    | 33                         | 115                                  | 10                                  | 22                         | 126                                  | 7.6                                 | 22                         | 208                                  | 12                                  |
| 11    | 25                         | 102                                  | 6.9                                 | 23                         | 114                                  | 6.9                                 | 22                         | 96                                   | 5.6                                 |
| 12    | 24                         | 93                                   | 6.3                                 | 21                         | 103                                  | 5.8                                 | 37                         | 277                                  | 57                                  |
| 13    | 28                         | 161                                  | 14                                  | 22                         | 94                                   | 5.5                                 | 60                         | 2270                                 | 292                                 |
| 14    | 24                         | 150                                  | 10                                  | 21                         | 86                                   | 4.8                                 | 22                         | 246                                  | 15                                  |
| 15    | 22                         | 229                                  | 14                                  | 17                         | 81                                   | 3.7                                 | 18                         | 185                                  | 9.0                                 |
| 16    | 23                         | 472                                  | 31                                  | 17                         | 83                                   | 3.8                                 | 17                         | 158                                  | 7.2                                 |
| 17    | 23                         | 309                                  | 20                                  | 17                         | 85                                   | 3.9                                 | 20                         | 135                                  | 7.1                                 |
| 18    | 19                         | 276                                  | 14                                  | 17                         | 87                                   | 3.9                                 | 20                         | 259                                  | 14                                  |
| 19    | 18                         | 256                                  | 13                                  | 17                         | 88                                   | 4.0                                 | 16                         | 297                                  | 13                                  |
| 20    | 19                         | 238                                  | 12                                  | 19                         | 87                                   | 4.5                                 | 16                         | 157                                  | 6.7                                 |
| 21    | 24                         | 218                                  | 14                                  | 20                         | 79                                   | 4.3                                 | 24                         | 304                                  | 20                                  |
| 22    | 19                         | 181                                  | 9.5                                 | 16                         | 72                                   | 3.1                                 | 19                         | 217                                  | 11                                  |
| 23    | 24                         | 148                                  | 9.6                                 | 17                         | 72                                   | 3.2                                 | 18                         | 155                                  | 7.3                                 |
| 24    | 25                         | 122                                  | 8.3                                 | 15                         | 78                                   | 3.2                                 | 22                         | 118                                  | 6.9                                 |
| 25    | 22                         | 107                                  | 6.4                                 | 15                         | 82                                   | 3.4                                 | 25                         | 410                                  | 29                                  |
| 26    | 20                         | 125                                  | 6.7                                 | 15                         | 86                                   | 3.4                                 | 22                         | 203                                  | 12                                  |
| 27    | 18                         | 149                                  | 7.2                                 | 19                         | 90                                   | 4.6                                 | 18                         | 153                                  | 7.3                                 |
| 28    | 18                         | 176                                  | 8.5                                 | 20                         | 92                                   | 4.9                                 | 17                         | 123                                  | 5.6                                 |
| 29    | 18                         | 133                                  | 6.5                                 | 15                         | 86                                   | 3.5                                 | 21                         | 101                                  | 5.9                                 |
| 30    | 40                         | 210                                  | 24                                  | 17                         | 79                                   | 3.5                                 | 17                         | 90                                   | 4.0                                 |
| 31    | 70                         | 228                                  | 55                                  | 15                         | 73                                   | 3.0                                 | ---                        | ---                                  | ---                                 |

07287355 FANNEGUSHA CREEK NEAR HOWARD, MS

LOCATION.--Lat 33°08'17", long 90°11'46", in NW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec.28, T.15 N., R.1 E., Choctaw Meridian, Holmes County, Hydrologic Unit 08030206, on downstream side of bridge on paved county road, 0.9 mi north of Howard and 2.2 mi south of State Highway 12.

DRAINAGE AREA.--107 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1987-96, 1999.

PERIOD OF DAILY RECORD.--

DISCHARGE: March 1987 to current year. August 1953 to February 1966 (annual maximums only). Occasional discharge measurements since 1947 in files of U.S. Army Corps of Engineers.

SUSPENDED SEDIMENT CONCENTRATION: March 1987 to May 1989, October 1999 to current year.

SUSPENDED SEDIMENT DISCHARGE: March 1987 to May 1989, October 1999 to current year.

INSTRUMENTATION.--Water-stage recorder and crest-stage gage. Datum of gage is 123.79 ft above sea level (levels by U.S. Army Corps of Engineers). Automatic pumping sediment sampler from March 1987 to May 1989 and since April 2000.

REMARKS.--Estimated daily discharge: Apr. 2, June 12-17, 24-27. Discharge records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

AVERAGE DISCHARGE.--13 years, 167 ft<sup>3</sup>/s, 21.2 in/yr.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 20,800 ft<sup>3</sup>/s, Apr. 29, 1991, maximum gage height, 22.72 ft, June 10, 1997; minimum daily mean, 8.1 ft<sup>3</sup>/s, Aug. 14, 1998.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 3,500 mg/L, Mar. 5, 1989; minimum daily mean, 2 mg/L, Oct. 23, 1987, Oct. 13-16, 1988.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 39,300 tons, Apr. 3, 2000; minimum daily, 0.06 ton, Oct. 23, 1987.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 12,600 ft<sup>3</sup>/s, Apr. 3, maximum gage height, 22.28 ft, Apr. 3; minimum daily mean, 9.0 ft<sup>3</sup>/s, Sept. 6.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,530 mg/L, Mar. 19; minimum daily mean, 22 mg/L, Dec. 11.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 39,300 tons, Apr. 3; minimum daily, 0.62 ton, Sept. 3-4.

## YAZOO RIVER BASIN

07287355 FANNEGUSHA CREEK NEAR HOWARD, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY     | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCENTRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCENTRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCENTRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|---------|----------------------------|---------------------------------|-------------------------------------|----------------------------|---------------------------------|-------------------------------------|----------------------------|---------------------------------|-------------------------------------|
| OCTOBER |                            |                                 | NOVEMBER                            |                            |                                 | DECEMBER                            |                            |                                 |                                     |
| 1       | 17                         | 40                              | 1.9                                 | 263                        | 691                             | 807                                 | 17                         | 30                              | 1.4                                 |
| 2       | 15                         | 40                              | 1.7                                 | 35                         | 76                              | 7.7                                 | 17                         | 31                              | 1.4                                 |
| 3       | 15                         | 40                              | 1.6                                 | 24                         | 54                              | 3.5                                 | 18                         | 33                              | 1.6                                 |
| 4       | 15                         | 40                              | 1.6                                 | 21                         | 48                              | 2.7                                 | 18                         | 31                              | 1.5                                 |
| 5       | 15                         | 38                              | 1.5                                 | 20                         | 44                              | 2.4                                 | 20                         | 27                              | 1.5                                 |
| 6       | 15                         | 36                              | 1.5                                 | 20                         | 40                              | 2.1                                 | 20                         | 24                              | 1.3                                 |
| 7       | 15                         | 36                              | 1.5                                 | 20                         | 36                              | 1.9                                 | 19                         | 25                              | 1.3                                 |
| 8       | 16                         | 35                              | 1.5                                 | 19                         | 33                              | 1.7                                 | 18                         | 26                              | 1.3                                 |
| 9       | 19                         | 31                              | 1.6                                 | 19                         | 31                              | 1.6                                 | 18                         | 25                              | 1.2                                 |
| 10      | 18                         | 28                              | 1.4                                 | 19                         | 33                              | 1.7                                 | 19                         | 23                              | 1.2                                 |
| 11      | 17                         | 25                              | 1.1                                 | 19                         | 31                              | 1.6                                 | 25                         | 22                              | 1.5                                 |
| 12      | 16                         | 25                              | 1.1                                 | 18                         | 29                              | 1.4                                 | 28                         | 38                              | 3.9                                 |
| 13      | 16                         | 26                              | 1.1                                 | 18                         | 30                              | 1.5                                 | 151                        | 235                             | 112                                 |
| 14      | 17                         | 24                              | 1.1                                 | 18                         | 34                              | 1.7                                 | 39                         | 103                             | 11                                  |
| 15      | 17                         | 23                              | 1.0                                 | 18                         | 35                              | 1.7                                 | 24                         | 57                              | 3.7                                 |
| 16      | 17                         | 23                              | 1.1                                 | 18                         | 30                              | 1.4                                 | 20                         | 33                              | 1.8                                 |
| 17      | 17                         | 24                              | 1.1                                 | 18                         | 33                              | 1.6                                 | 19                         | 28                              | 1.5                                 |
| 18      | 16                         | 27                              | 1.2                                 | 18                         | 32                              | 1.5                                 | 19                         | 27                              | 1.4                                 |
| 19      | 17                         | 28                              | 1.3                                 | 18                         | 30                              | 1.4                                 | 19                         | 26                              | 1.3                                 |
| 20      | 17                         | 28                              | 1.3                                 | 25                         | 29                              | 2.0                                 | 19                         | 25                              | 1.3                                 |
| 21      | 17                         | 26                              | 1.2                                 | 22                         | 29                              | 1.7                                 | 20                         | 27                              | 1.5                                 |
| 22      | 17                         | 24                              | 1.1                                 | 20                         | 28                              | 1.5                                 | 20                         | 28                              | 1.5                                 |
| 23      | 17                         | 24                              | 1.1                                 | 19                         | 29                              | 1.5                                 | 20                         | 27                              | 1.5                                 |
| 24      | 17                         | 24                              | 1.1                                 | 29                         | 31                              | 2.4                                 | 19                         | 26                              | 1.4                                 |
| 25      | 17                         | 24                              | 1.1                                 | 25                         | 32                              | 2.1                                 | 19                         | 28                              | 1.4                                 |
| 26      | 17                         | 25                              | 1.2                                 | 21                         | 33                              | 1.8                                 | 19                         | 30                              | 1.5                                 |
| 27      | 18                         | 26                              | 1.2                                 | 19                         | 31                              | 1.6                                 | 19                         | 32                              | 1.6                                 |
| 28      | 18                         | 27                              | 1.3                                 | 18                         | 30                              | 1.5                                 | 19                         | 31                              | 1.6                                 |
| 29      | 18                         | 27                              | 1.3                                 | 18                         | 32                              | 1.5                                 | 19                         | 30                              | 1.5                                 |
| 30      | 19                         | 28                              | 1.4                                 | 17                         | 32                              | 1.5                                 | 19                         | 28                              | 1.4                                 |
| 31      | 20                         | 38                              | 2.3                                 | ---                        | ---                             | ---                                 | 19                         | 26                              | 1.4                                 |
| JANUARY |                            |                                 | FEBRUARY                            |                            |                                 | MARCH                               |                            |                                 |                                     |
| 1       | 19                         | 26                              | 1.4                                 | 30                         | 35                              | 2.9                                 | 23                         | 29                              | 1.8                                 |
| 2       | 20                         | 26                              | 1.4                                 | 28                         | 30                              | 2.3                                 | 23                         | 28                              | 1.7                                 |
| 3       | 20                         | 28                              | 1.5                                 | 27                         | 29                              | 2.2                                 | 22                         | 27                              | 1.6                                 |
| 4       | 20                         | 37                              | 2.0                                 | 26                         | 31                              | 2.2                                 | 22                         | 26                              | 1.5                                 |
| 5       | 19                         | 33                              | 1.8                                 | 25                         | 31                              | 2.1                                 | 22                         | 25                              | 1.5                                 |
| 6       | 19                         | 30                              | 1.5                                 | 25                         | 30                              | 2.0                                 | 22                         | 24                              | 1.4                                 |
| 7       | 19                         | 28                              | 1.4                                 | 24                         | 30                              | 2.0                                 | 21                         | 27                              | 1.5                                 |
| 8       | 19                         | 30                              | 1.6                                 | 25                         | 30                              | 2.0                                 | 21                         | 30                              | 1.7                                 |
| 9       | 22                         | 32                              | 1.9                                 | 24                         | 29                              | 1.9                                 | 21                         | 31                              | 1.7                                 |
| 10      | 25                         | 34                              | 2.2                                 | 24                         | 29                              | 1.9                                 | 83                         | 168                             | 461                                 |
| 11      | 21                         | 33                              | 1.8                                 | 24                         | 30                              | 1.9                                 | 1530                       | 1240                            | 6410                                |
| 12      | 19                         | 32                              | 1.7                                 | 23                         | 30                              | 1.9                                 | 208                        | 266                             | 165                                 |
| 13      | 20                         | 31                              | 1.7                                 | 24                         | 30                              | 2.0                                 | 45                         | 118                             | 15                                  |
| 14      | 20                         | 30                              | 1.6                                 | 27                         | 30                              | 2.2                                 | 27                         | 86                              | 6.3                                 |
| 15      | 19                         | 30                              | 1.5                                 | 29                         | 29                              | 2.2                                 | 23                         | 68                              | 4.3                                 |
| 16      | 19                         | 30                              | 1.5                                 | 25                         | 26                              | 1.8                                 | 26                         | 59                              | 4.2                                 |
| 17      | 19                         | 30                              | 1.5                                 | 23                         | 26                              | 1.7                                 | 35                         | 71                              | 6.7                                 |
| 18      | 20                         | 28                              | 1.5                                 | 24                         | 26                              | 1.7                                 | 23                         | 66                              | 4.2                                 |
| 19      | 21                         | 26                              | 1.5                                 | 24                         | 27                              | 1.7                                 | 1970                       | 2530                            | 21100                               |
| 20      | 21                         | 27                              | 1.5                                 | 24                         | 27                              | 1.7                                 | 915                        | 685                             | 2150                                |
| 21      | 21                         | 28                              | 1.5                                 | 23                         | 28                              | 1.7                                 | 202                        | 218                             | 123                                 |
| 22      | 21                         | 28                              | 1.6                                 | 23                         | 28                              | 1.7                                 | 79                         | 120                             | 27                                  |
| 23      | 21                         | 29                              | 1.6                                 | 23                         | 28                              | 1.7                                 | 43                         | 78                              | 9.0                                 |
| 24      | 21                         | 30                              | 1.7                                 | 22                         | 27                              | 1.6                                 | 37                         | 53                              | 5.4                                 |
| 25      | 21                         | 34                              | 2.0                                 | 22                         | 26                              | 1.6                                 | 36                         | 46                              | 4.5                                 |
| 26      | 22                         | 38                              | 2.2                                 | 23                         | 28                              | 1.7                                 | 35                         | 42                              | 4.0                                 |
| 27      | 23                         | 36                              | 2.2                                 | 28                         | 30                              | 2.3                                 | 454                        | 895                             | 1390                                |
| 28      | 30                         | 34                              | 2.7                                 | 30                         | 30                              | 2.4                                 | 132                        | 156                             | 65                                  |
| 29      | 38                         | 33                              | 3.4                                 | 25                         | 29                              | 2.0                                 | 90                         | 195                             | 67                                  |
| 30      | 40                         | 36                              | 3.8                                 | ---                        | ---                             | ---                                 | 214                        | 210                             | 137                                 |
| 31      | 34                         | 39                              | 3.6                                 | ---                        | ---                             | ---                                 | 92                         | 83                              | 21                                  |

07287355 FANNEGUSHA CREEK NEAR HOWARD, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY   | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| APRIL |                            |                                      | MAY                                 |                            |                                      | JUNE                                |                            |                                      |                                     |
| 1     | 73                         | 77                                   | 16                                  | 31                         | 30                                   | 2.5                                 | 21                         | 29                                   | 1.6                                 |
| 2     | 6530                       | 1340                                 | 26900                               | 32                         | 29                                   | 2.5                                 | 20                         | 27                                   | 1.5                                 |
| 3     | 7810                       | 2090                                 | 39300                               | 41                         | 54                                   | 6.4                                 | 21                         | 27                                   | 1.5                                 |
| 4     | 3140                       | 1130                                 | 10900                               | 67                         | 71                                   | 13                                  | 21                         | 27                                   | 1.5                                 |
| 5     | 924                        | 367                                  | 923                                 | 44                         | 58                                   | 6.8                                 | 29                         | 44                                   | 3.7                                 |
| 6     | 692                        | 262                                  | 492                                 | 42                         | 65                                   | 7.6                                 | 28                         | 49                                   | 3.8                                 |
| 7     | 556                        | 198                                  | 298                                 | 41                         | 65                                   | 7.2                                 | 22                         | 37                                   | 2.2                                 |
| 8     | 700                        | 286                                  | 566                                 | 34                         | 49                                   | 4.5                                 | 20                         | 32                                   | 1.8                                 |
| 9     | 510                        | 183                                  | 253                                 | 32                         | 29                                   | 2.5                                 | 19                         | 28                                   | 1.5                                 |
| 10    | 390                        | 147                                  | 155                                 | 31                         | 32                                   | 2.6                                 | 19                         | 27                                   | 1.4                                 |
| 11    | 330                        | 134                                  | 119                                 | 30                         | 37                                   | 3.0                                 | 19                         | 26                                   | 1.3                                 |
| 12    | 286                        | 124                                  | 96                                  | 29                         | 41                                   | 3.2                                 | 19                         | 24                                   | 1.2                                 |
| 13    | 327                        | 139                                  | 126                                 | 29                         | 39                                   | 3.0                                 | 18                         | 28                                   | 1.3                                 |
| 14    | 234                        | 118                                  | 79                                  | 28                         | 36                                   | 2.7                                 | 17                         | 32                                   | 1.3                                 |
| 15    | 80                         | 73                                   | 16                                  | 26                         | 34                                   | 2.4                                 | 17                         | 28                                   | 1.3                                 |
| 16    | 61                         | 61                                   | 10                                  | 26                         | 34                                   | 2.4                                 | 17                         | 24                                   | 1.1                                 |
| 17    | 53                         | 55                                   | 7.9                                 | 26                         | 36                                   | 2.5                                 | 19                         | 23                                   | 1.2                                 |
| 18    | 47                         | 57                                   | 7.3                                 | 25                         | 36                                   | 2.5                                 | 28                         | 51                                   | 4.2                                 |
| 19    | 44                         | 57                                   | 6.7                                 | 25                         | 36                                   | 2.4                                 | 19                         | 44                                   | 2.3                                 |
| 20    | 41                         | 47                                   | 5.3                                 | 28                         | 36                                   | 2.7                                 | 19                         | 35                                   | 1.8                                 |
| 21    | 39                         | 39                                   | 4.1                                 | 29                         | 36                                   | 2.8                                 | 18                         | 31                                   | 1.5                                 |
| 22    | 37                         | 32                                   | 3.2                                 | 26                         | 35                                   | 2.5                                 | 20                         | 35                                   | 1.8                                 |
| 23    | 36                         | 29                                   | 2.8                                 | 24                         | 31                                   | 2.0                                 | 18                         | 39                                   | 1.9                                 |
| 24    | 38                         | 26                                   | 2.7                                 | 23                         | 28                                   | 1.8                                 | 17                         | 35                                   | 1.6                                 |
| 25    | 36                         | 24                                   | 2.4                                 | 23                         | 38                                   | 2.4                                 | 17                         | 30                                   | 1.4                                 |
| 26    | 34                         | 23                                   | 2.1                                 | 24                         | 39                                   | 2.5                                 | 16                         | 27                                   | 1.2                                 |
| 27    | 34                         | 28                                   | 2.5                                 | 23                         | 38                                   | 2.3                                 | 21                         | 42                                   | 2.9                                 |
| 28    | 33                         | 34                                   | 3.0                                 | 28                         | 64                                   | 5.0                                 | 34                         | 102                                  | 10                                  |
| 29    | 32                         | 34                                   | 2.9                                 | 24                         | 42                                   | 2.7                                 | 22                         | 91                                   | 5.4                                 |
| 30    | 31                         | 32                                   | 2.7                                 | 22                         | 36                                   | 2.1                                 | 19                         | 65                                   | 3.4                                 |
| 31    | ---                        | ---                                  | ---                                 | 21                         | 32                                   | 1.8                                 | ---                        | ---                                  | ---                                 |
| JULY  |                            |                                      | AUGUST                              |                            |                                      | SEPTEMBER                           |                            |                                      |                                     |
| 1     | 18                         | 57                                   | 2.8                                 | 16                         | 38                                   | 1.6                                 | 9.7                        | 26                                   | .68                                 |
| 2     | 19                         | 56                                   | 3.0                                 | 15                         | 37                                   | 1.5                                 | 9.5                        | 25                                   | .65                                 |
| 3     | 24                         | 69                                   | 4.6                                 | 14                         | 46                                   | 1.7                                 | 9.4                        | 25                                   | .62                                 |
| 4     | 21                         | 53                                   | 3.0                                 | 14                         | 37                                   | 1.4                                 | 9.4                        | 25                                   | .62                                 |
| 5     | 18                         | 39                                   | 2.0                                 | 14                         | 35                                   | 1.3                                 | 9.1                        | 30                                   | .74                                 |
| 6     | 18                         | 37                                   | 1.8                                 | 13                         | 33                                   | 1.2                                 | 9.0                        | 36                                   | .88                                 |
| 7     | 18                         | 40                                   | 1.9                                 | 13                         | 31                                   | 1.1                                 | 9.3                        | 32                                   | .80                                 |
| 8     | 17                         | 54                                   | 2.5                                 | 13                         | 31                                   | 1.1                                 | 9.7                        | 29                                   | .77                                 |
| 9     | 17                         | 72                                   | 3.3                                 | 13                         | 30                                   | 1.1                                 | 10                         | 29                                   | .79                                 |
| 10    | 17                         | 86                                   | 3.9                                 | 13                         | 31                                   | 1.1                                 | 11                         | 28                                   | .80                                 |
| 11    | 16                         | 61                                   | 2.7                                 | 12                         | 40                                   | 1.3                                 | 10                         | 27                                   | .77                                 |
| 12    | 16                         | 43                                   | 1.9                                 | 12                         | 39                                   | 1.3                                 | 11                         | 30                                   | .87                                 |
| 13    | 16                         | 51                                   | 2.2                                 | 12                         | 37                                   | 1.2                                 | 13                         | 34                                   | 1.2                                 |
| 14    | 16                         | 63                                   | 2.7                                 | 12                         | 34                                   | 1.1                                 | 12                         | 35                                   | 1.1                                 |
| 15    | 16                         | 63                                   | 2.7                                 | 12                         | 29                                   | .90                                 | 10                         | 36                                   | .97                                 |
| 16    | 16                         | 58                                   | 2.4                                 | 12                         | 29                                   | .90                                 | 9.5                        | 34                                   | .88                                 |
| 17    | 15                         | 55                                   | 2.2                                 | 11                         | 30                                   | .91                                 | 9.4                        | 32                                   | .80                                 |
| 18    | 15                         | 56                                   | 2.3                                 | 11                         | 32                                   | .97                                 | 9.3                        | 30                                   | .75                                 |
| 19    | 15                         | 55                                   | 2.3                                 | 11                         | 31                                   | .94                                 | 9.3                        | 28                                   | .69                                 |
| 20    | 15                         | 46                                   | 1.9                                 | 11                         | 31                                   | .93                                 | 9.5                        | 33                                   | .86                                 |
| 21    | 15                         | 39                                   | 1.6                                 | 11                         | 30                                   | .89                                 | 9.7                        | 29                                   | .76                                 |
| 22    | 15                         | 42                                   | 1.7                                 | 11                         | 29                                   | .84                                 | 10                         | 25                                   | .68                                 |
| 23    | 15                         | 42                                   | 1.6                                 | 11                         | 28                                   | .83                                 | 10                         | 24                                   | .67                                 |
| 24    | 15                         | 41                                   | 1.6                                 | 11                         | 30                                   | .87                                 | 11                         | 24                                   | .74                                 |
| 25    | 14                         | 38                                   | 1.5                                 | 11                         | 32                                   | .91                                 | 12                         | 24                                   | .78                                 |
| 26    | 14                         | 36                                   | 1.4                                 | 10                         | 32                                   | .90                                 | 11                         | 27                                   | .84                                 |
| 27    | 14                         | 37                                   | 1.4                                 | 10                         | 32                                   | .88                                 | 11                         | 31                                   | .90                                 |
| 28    | 14                         | 40                                   | 1.5                                 | 10                         | 32                                   | .87                                 | 10                         | 29                                   | .79                                 |
| 29    | 14                         | 41                                   | 1.5                                 | 9.9                        | 33                                   | .88                                 | 10                         | 24                                   | .67                                 |
| 30    | 18                         | 41                                   | 2.0                                 | 9.8                        | 33                                   | .88                                 | 10                         | 24                                   | .67                                 |
| 31    | 20                         | 41                                   | 2.3                                 | 9.7                        | 29                                   | .77                                 | ---                        | ---                                  | ---                                 |



## 07287400 BLACK CREEK AT LEXINGTON, MS

LOCATION.--Lat 33°06'19", long 90°03'13", NE1/4 SE1/4 sec.35, T.15 N., R.2 E., Choctaw Meridian, Holmes County, Hydrologic Unit 08030206, 300 ft downstream of bridge on State Highway 17 in Lexington, 0.5 mi south of intersection of Highways 17 and 12.

DRAINAGE AREA.--88.1 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1987 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 171.14 ft above sea level.

REMARKS.--Estimated daily discharges: Apr. 27-30. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft<sup>3</sup>/s, and maximum (\*):

| Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Apr. 3 | 1245 | *8,890                         | *23.85           | No other peak greater than base discharge. |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1     | 48   | 194  | 25   | 34   | 99   | 59   | 208   | 36   | 24   | 34   | 20   | 19   |
| 2     | 41   | 34   | 25   | 33   | 88   | 56   | 5820  | 35   | 24   | 33   | 20   | 19   |
| 3     | 37   | 29   | 26   | 214  | 83   | 55   | 6190  | 55   | 23   | 32   | 19   | 19   |
| 4     | 34   | 28   | 26   | 170  | 80   | 54   | 2000  | 61   | 82   | 31   | 20   | 18   |
| 5     | 32   | 28   | 39   | 51   | 76   | 53   | 527   | 43   | 201  | 30   | 19   | 18   |
| 6     | 31   | 27   | 32   | 44   | 74   | 52   | 354   | 37   | 63   | 30   | 18   | 18   |
| 7     | 30   | 28   | 27   | 41   | 74   | 51   | 279   | 36   | 42   | 32   | 18   | 18   |
| 8     | 31   | 27   | 26   | 48   | 73   | 50   | 413   | 34   | 37   | 32   | 18   | 19   |
| 9     | 39   | 27   | 38   | 81   | 72   | 51   | 231   | 35   | 35   | 29   | 18   | 18   |
| 10    | 32   | 27   | 58   | 50   | 72   | 186  | 147   | 35   | 34   | 28   | 18   | 19   |
| 11    | 29   | 27   | 33   | 41   | 71   | 711  | 112   | 34   | 33   | 27   | 19   | 19   |
| 12    | 27   | 26   | 98   | 37   | 70   | 219  | 90    | 33   | 30   | 27   | 19   | 57   |
| 13    | 26   | 27   | 245  | 40   | 86   | 118  | 223   | 32   | 29   | 26   | 19   | 55   |
| 14    | 26   | 27   | 52   | 39   | 114  | 97   | 140   | 31   | 28   | 26   | 18   | 27   |
| 15    | 25   | 27   | 38   | 35   | 83   | 92   | 91    | 31   | 28   | 26   | 17   | 25   |
| 16    | 25   | 27   | 33   | 34   | 76   | 118  | 72    | 30   | 27   | 25   | 17   | 25   |
| 17    | 26   | 27   | 32   | 34   | 73   | 105  | 62    | 31   | 30   | 25   | 17   | 25   |
| 18    | 26   | 27   | 31   | 33   | 93   | 84   | 54    | 30   | 135  | 26   | 17   | 25   |
| 19    | 27   | 27   | 31   | 40   | 125  | 1250 | 49    | 30   | 48   | 23   | 18   | 26   |
| 20    | 27   | 37   | 31   | 40   | 77   | 578  | 46    | 47   | 35   | 21   | 17   | 25   |
| 21    | 26   | 32   | 39   | 34   | 70   | 179  | 42    | 50   | 39   | 21   | 18   | 26   |
| 22    | 26   | 28   | 37   | 33   | 66   | 108  | 40    | 35   | 41   | 21   | 19   | 25   |
| 23    | 24   | 27   | 33   | 33   | 62   | 83   | 40    | 32   | 35   | 20   | 19   | 24   |
| 24    | 24   | 30   | 31   | 32   | 59   | 70   | 42    | 31   | 33   | 20   | 18   | 30   |
| 25    | 24   | 32   | 30   | 32   | 57   | 62   | 40    | 30   | 33   | 20   | 18   | 30   |
| 26    | 24   | 32   | 30   | 31   | 66   | 57   | 38    | 30   | 32   | 20   | 18   | 27   |
| 27    | 24   | 28   | 30   | 34   | 130  | 311  | e37   | 30   | 145  | 20   | 18   | 26   |
| 28    | 24   | 27   | 35   | 115  | 72   | 86   | e36   | 34   | 54   | 19   | 18   | 26   |
| 29    | 24   | 26   | 46   | 179  | 63   | 118  | e36   | 28   | 45   | 20   | 19   | 25   |
| 30    | 23   | 25   | 40   | 159  | ---  | 393  | e36   | 26   | 37   | 20   | 19   | 24   |
| 31    | 56   | ---  | 37   | 118  | ---  | 105  | ---   | 25   | ---  | 20   | 19   | ---  |
| TOTAL | 918  | 1015 | 1334 | 1939 | 2304 | 5611 | 17495 | 1087 | 1482 | 784  | 569  | 757  |
| MEAN  | 29.6 | 33.8 | 43.0 | 62.5 | 79.4 | 181  | 583   | 35.1 | 49.4 | 25.3 | 18.4 | 25.2 |
| MAX   | 56   | 194  | 245  | 214  | 130  | 1250 | 6190  | 61   | 201  | 34   | 20   | 57   |
| MIN   | 23   | 25   | 25   | 31   | 57   | 50   | 36    | 25   | 23   | 19   | 17   | 18   |
| CFSM  | .34  | .38  | .49  | .71  | .90  | 2.05 | 6.62  | .40  | .56  | .29  | .21  | .29  |
| IN.   | .39  | .43  | .56  | .82  | .97  | 2.37 | 7.39  | .46  | .63  | .33  | .24  | .32  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

|      | MEAN | 46.4 | 71.8 | 142  | 227  | 230  | 240  | 246  | 133  | 121  | 74.6 | 46.5 | 47.6 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 162  | 223  | 340  | 683  | 497  | 374  | 864  | 302  | 621  | 253  | 113  | 110  |      |
| (WY) | 1989 | 1990 | 1999 | 1999 | 1991 | 1991 | 1991 | 1989 | 1997 | 1989 | 1994 | 1994 |      |
| MIN  | 18.6 | 32.2 | 43.0 | 56.2 | 79.4 | 88.8 | 45.1 | 29.7 | 21.1 | 25.3 | 18.4 | 24.9 |      |
| (WY) | 1988 | 1991 | 2000 | 1988 | 2000 | 1992 | 1987 | 1988 | 1988 | 2000 | 2000 | 1997 |      |

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1987 - 2000

|                          |       |        |       |
|--------------------------|-------|--------|-------|
| ANNUAL TOTAL             | 51956 | 35295  |       |
| ANNUAL MEAN              | 142   | 96.4   |       |
| HIGHEST ANNUAL MEAN      |       |        | 137   |
| LOWEST ANNUAL MEAN       |       |        | 217   |
| HIGHEST DAILY MEAN       | 3600  | Jan 30 | 6190  |
| LOWEST DAILY MEAN        | 23    | Aug 15 | 17    |
| ANNUAL SEVEN-DAY MINIMUM | 23    | Aug 15 | 17    |
| INSTANTANEOUS PEAK FLOW  |       |        | 8890  |
| INSTANTANEOUS PEAK STAGE |       |        | 23.85 |
| ANNUAL RUNOFF (CFSM)     | 1.62  |        | 1.09  |
| ANNUAL RUNOFF (INCHES)   | 21.94 |        | 14.90 |
| 10 PERCENT EXCEEDS       | 215   |        | 114   |
| 50 PERCENT EXCEEDS       | 40    |        | 32    |
| 90 PERCENT EXCEEDS       | 25    |        | 19    |

e Estimated

07287404 HARLAND CREEK NEAR HOWARD, MS

LOCATION.--Lat 33°06'05", long 90°10'23", in NW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec.35, T.15 N., R.1 E., Choctaw Meridian, Holmes County, Hydrologic Unit 08030206, on right bank at downstream side of bridge on gravel road, 1.3 mi downstream from Williams Creek, 0.8 mi upstream from mouth, and 1.8 mi southeast of Howard.

DRAINAGE AREA.--62.1 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1987-97, 1999.

PERIOD OF DAILY RECORD.--

DISCHARGE: November 1986 to current year.

SPECIFIC CONDUCTANCE: December 1986 to February 1987.

pH: December 1986 to March 1987.

WATER TEMPERATURE: December 1986 to March 1987.

DISSOLVED OXYGEN: December 1986 to February 1987.

SUSPENDED SEDIMENT CONCENTRATION: December 1986 to current year.

SUSPENDED SEDIMENT DISCHARGE: December 1986 to current year.

INSTRUMENTATION.--Water-stage recorder and crest-stage gage. Datum of gage is 132.85 ft above sea level. Automatic pumping sediment sampler since December 1986.

REMARKS.--Estimated daily discharges: June 30-July 1. Discharge records good except for estimated daily discharges, which are poor. Satellite telemeter at station. Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office.

AVERAGE DISCHARGE.--13 years, 90.1 ft<sup>3</sup>/s, 19.70 in/yr.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 7,440 ft<sup>3</sup>/s, Mar. 18, 1987, maximum gage height, 22.95 ft, Jan. 18-19, 1995; minimum daily mean, 5.6 ft<sup>3</sup>/s, Aug. 17-18, 1988.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 11,100 mg/L, Feb. 2, 1988; minimum daily mean, 1 mg/L, on several days in 1987-88, 1990, 1995.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 62,800 tons, Nov. 16, 1987; minimum daily, 0.02 ton, on several days in 1988.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 6,110 ft<sup>3</sup>/s, Apr. 3, maximum gage height, 22.41 ft, Apr. 3; minimum daily mean, 7.2 ft<sup>3</sup>/s, Sept. 30.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 3,910 mg/L, Apr. 2; minimum daily mean, 19 mg/L, Jan. 1.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 38,400 tons, Apr. 3; minimum daily, 0.63 ton, Aug. 24.

## YAZOO RIVER BASIN

07287404 HARLAND CREEK NEAR HOWARD, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY     | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|---------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| OCTOBER |                            |                                      | NOVEMBER                            |                            |                                      | DECEMBER                            |                            |                                      |                                     |
| 1       | 13                         | 268                                  | 9.6                                 | 207                        | 463                                  | 454                                 | 13                         | 42                                   | 1.5                                 |
| 2       | 12                         | 99                                   | 3.2                                 | 22                         | 63                                   | 3.8                                 | 13                         | 46                                   | 1.6                                 |
| 3       | 11                         | 63                                   | 1.9                                 | 19                         | 52                                   | 2.7                                 | 14                         | 97                                   | 3.6                                 |
| 4       | 11                         | 48                                   | 1.5                                 | 18                         | 50                                   | 2.4                                 | 14                         | 115                                  | 4.3                                 |
| 5       | 11                         | 48                                   | 1.4                                 | 17                         | 48                                   | 2.2                                 | 18                         | 536                                  | 27                                  |
| 6       | 11                         | 34                                   | 1.0                                 | 16                         | 46                                   | 2.0                                 | 16                         | 233                                  | 10                                  |
| 7       | 12                         | 33                                   | 1.1                                 | 16                         | 44                                   | 2.0                                 | 14                         | 116                                  | 4.4                                 |
| 8       | 13                         | 33                                   | 1.1                                 | 16                         | 42                                   | 1.9                                 | 15                         | 77                                   | 3.1                                 |
| 9       | 15                         | 40                                   | 1.6                                 | 16                         | 41                                   | 1.8                                 | 17                         | 107                                  | 5.1                                 |
| 10      | 14                         | 53                                   | 1.9                                 | 16                         | 39                                   | 1.7                                 | 24                         | 382                                  | 25                                  |
| 11      | 12                         | 49                                   | 1.6                                 | 16                         | 38                                   | 1.6                                 | 18                         | 262                                  | 13                                  |
| 12      | 12                         | 32                                   | 1.0                                 | 16                         | 36                                   | 1.6                                 | 34                         | 382                                  | 53                                  |
| 13      | 12                         | 34                                   | 1.1                                 | 16                         | 35                                   | 1.5                                 | 86                         | 249                                  | 79                                  |
| 14      | 12                         | 42                                   | 1.3                                 | 16                         | 33                                   | 1.4                                 | 22                         | 68                                   | 4.2                                 |
| 15      | 12                         | 53                                   | 1.7                                 | 16                         | 32                                   | 1.3                                 | 19                         | 44                                   | 2.3                                 |
| 16      | 12                         | 74                                   | 2.3                                 | 15                         | 31                                   | 1.3                                 | 18                         | 37                                   | 1.8                                 |
| 17      | 11                         | 83                                   | 2.6                                 | 15                         | 25                                   | 1.0                                 | 17                         | 37                                   | 1.7                                 |
| 18      | 11                         | 47                                   | 1.4                                 | 15                         | 42                                   | 1.7                                 | 17                         | 38                                   | 1.8                                 |
| 19      | 12                         | 41                                   | 1.3                                 | 15                         | 53                                   | 2.2                                 | 17                         | 39                                   | 1.8                                 |
| 20      | 12                         | 31                                   | 1.0                                 | 20                         | 183                                  | 10                                  | 18                         | 40                                   | 1.9                                 |
| 21      | 12                         | 34                                   | 1.1                                 | 16                         | 105                                  | 4.5                                 | 20                         | 45                                   | 2.5                                 |
| 22      | 11                         | 752                                  | 21                                  | 15                         | 89                                   | 3.7                                 | 18                         | 24                                   | 1.2                                 |
| 23      | 10                         | 1570                                 | 43                                  | 16                         | 163                                  | 7.6                                 | 18                         | 23                                   | 1.1                                 |
| 24      | 12                         | 172                                  | 5.3                                 | 16                         | 292                                  | 13                                  | 18                         | 23                                   | 1.1                                 |
| 25      | 12                         | 40                                   | 1.3                                 | 17                         | 229                                  | 10                                  | 18                         | 23                                   | 1.1                                 |
| 26      | 11                         | 53                                   | 1.6                                 | 16                         | 105                                  | 4.5                                 | 18                         | 21                                   | 1.0                                 |
| 27      | 10                         | 47                                   | 1.3                                 | 15                         | 60                                   | 2.4                                 | 19                         | 22                                   | 1.1                                 |
| 28      | 11                         | 46                                   | 1.4                                 | 15                         | 58                                   | 2.3                                 | 19                         | 23                                   | 1.2                                 |
| 29      | 10                         | 48                                   | 1.4                                 | 14                         | 57                                   | 2.2                                 | 19                         | 24                                   | 1.2                                 |
| 30      | 11                         | 49                                   | 1.4                                 | 14                         | 48                                   | 1.8                                 | 19                         | 22                                   | 1.2                                 |
| 31      | 19                         | 71                                   | 7.3                                 | ---                        | ---                                  | ---                                 | 19                         | 21                                   | 1.1                                 |
| JANUARY |                            |                                      | FEBRUARY                            |                            |                                      | MARCH                               |                            |                                      |                                     |
| 1       | 19                         | 19                                   | .98                                 | 21                         | 34                                   | 1.9                                 | 17                         | 70                                   | 3.2                                 |
| 2       | 20                         | 20                                   | 1.1                                 | 20                         | 30                                   | 1.6                                 | 16                         | 57                                   | 2.4                                 |
| 3       | 24                         | 53                                   | 7.3                                 | 19                         | 30                                   | 1.6                                 | 15                         | 223                                  | 8.9                                 |
| 4       | 31                         | 167                                  | 17                                  | 19                         | 32                                   | 1.7                                 | 16                         | 124                                  | 5.2                                 |
| 5       | 20                         | 40                                   | 2.2                                 | 19                         | 26                                   | 1.3                                 | 15                         | 51                                   | 2.1                                 |
| 6       | 20                         | 32                                   | 1.7                                 | 19                         | 39                                   | 2.0                                 | 15                         | 49                                   | 2.0                                 |
| 7       | 19                         | 27                                   | 1.4                                 | 19                         | 37                                   | 1.9                                 | 15                         | 48                                   | 2.0                                 |
| 8       | 22                         | 38                                   | 2.3                                 | 19                         | 34                                   | 1.7                                 | 14                         | 48                                   | 1.8                                 |
| 9       | 29                         | 61                                   | 4.8                                 | 18                         | 36                                   | 1.8                                 | 15                         | 47                                   | 1.9                                 |
| 10      | 22                         | 53                                   | 3.2                                 | 19                         | 38                                   | 1.9                                 | 150                        | 754                                  | 650                                 |
| 11      | 20                         | 36                                   | 2.0                                 | 20                         | 106                                  | 6.4                                 | 320                        | 597                                  | 598                                 |
| 12      | 20                         | 30                                   | 1.6                                 | 18                         | 54                                   | 2.6                                 | 52                         | 263                                  | 38                                  |
| 13      | 20                         | 27                                   | 1.5                                 | 21                         | 337                                  | 24                                  | 33                         | 181                                  | 16                                  |
| 14      | 19                         | 27                                   | 1.4                                 | 21                         | 310                                  | 18                                  | 27                         | 147                                  | 11                                  |
| 15      | 19                         | 24                                   | 1.3                                 | 17                         | 64                                   | 3.0                                 | 26                         | 120                                  | 8.5                                 |
| 16      | 19                         | 24                                   | 1.2                                 | 18                         | 50                                   | 2.5                                 | 41                         | 199                                  | 25                                  |
| 17      | 19                         | 23                                   | 1.2                                 | 17                         | 71                                   | 3.2                                 | 35                         | 181                                  | 17                                  |
| 18      | 19                         | 27                                   | 1.4                                 | 18                         | 77                                   | 3.8                                 | 26                         | 121                                  | 8.7                                 |
| 19      | 20                         | 32                                   | 1.7                                 | 22                         | 79                                   | 4.7                                 | 691                        | 1410                                 | 3210                                |
| 20      | 19                         | 24                                   | 1.3                                 | 16                         | 60                                   | 2.6                                 | 403                        | 448                                  | 545                                 |
| 21      | 19                         | 23                                   | 1.2                                 | 16                         | 62                                   | 2.7                                 | 124                        | 230                                  | 77                                  |
| 22      | 19                         | 24                                   | 1.2                                 | 17                         | 78                                   | 3.6                                 | 63                         | 181                                  | 31                                  |
| 23      | 19                         | 23                                   | 1.2                                 | 17                         | 76                                   | 3.5                                 | 41                         | 122                                  | 14                                  |
| 24      | 19                         | 23                                   | 1.2                                 | 17                         | 64                                   | 2.9                                 | 31                         | 107                                  | 9.0                                 |
| 25      | 19                         | 24                                   | 1.2                                 | 17                         | 62                                   | 2.8                                 | 26                         | 106                                  | 7.4                                 |
| 26      | 18                         | 24                                   | 1.2                                 | 18                         | 80                                   | 4.2                                 | 23                         | 94                                   | 5.9                                 |
| 27      | 20                         | 35                                   | 2.0                                 | 24                         | 124                                  | 8.4                                 | 212                        | 616                                  | 562                                 |
| 28      | 32                         | 227                                  | 21                                  | 18                         | 70                                   | 3.4                                 | 74                         | 169                                  | 35                                  |
| 29      | 34                         | 105                                  | 10                                  | 17                         | 53                                   | 2.4                                 | 154                        | 262                                  | 186                                 |
| 30      | 27                         | 41                                   | 3.1                                 | ---                        | ---                                  | ---                                 | 630                        | 672                                  | 1420                                |
| 31      | 22                         | 35                                   | 2.1                                 | ---                        | ---                                  | ---                                 | 228                        | 210                                  | 131                                 |

## 07287404 HARLAND CREEK NEAR HOWARD, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY   | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) | MEAN<br>DISCHARGE<br>(CFS) | MEAN<br>CONCEN-<br>TRATION<br>(MG/L) | SEDIMENT<br>DISCHARGE<br>(TONS/DAY) |
|-------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|--------------------------------------|-------------------------------------|
| APRIL |                            |                                      | MAY                                 |                            |                                      | JUNE                                |                            |                                      |                                     |
| 1     | 193                        | 313                                  | 293                                 | 28                         | 72                                   | 5.4                                 | 14                         | 36                                   | 1.3                                 |
| 2     | 3200                       | 3910                                 | 37600                               | 27                         | 72                                   | 5.3                                 | 14                         | 34                                   | 1.3                                 |
| 3     | 3860                       | 3760                                 | 38400                               | 138                        | 839                                  | 528                                 | 14                         | 63                                   | 2.4                                 |
| 4     | 1630                       | 1420                                 | 6990                                | 57                         | 243                                  | 39                                  | 32                         | 114                                  | 40                                  |
| 5     | 862                        | 670                                  | 1540                                | 38                         | 159                                  | 17                                  | 73                         | 300                                  | 78                                  |
| 6     | 722                        | 1120                                 | 2170                                | 31                         | 133                                  | 11                                  | 23                         | 165                                  | 10                                  |
| 7     | 678                        | 1180                                 | 2160                                | 27                         | 122                                  | 8.8                                 | 17                         | 130                                  | 6.1                                 |
| 8     | 451                        | 768                                  | 949                                 | 24                         | 73                                   | 4.8                                 | 17                         | 110                                  | 5.0                                 |
| 9     | 155                        | 806                                  | 335                                 | 23                         | 43                                   | 2.6                                 | 16                         | 102                                  | 4.3                                 |
| 10    | 90                         | 702                                  | 170                                 | 22                         | 75                                   | 4.5                                 | 16                         | 61                                   | 2.6                                 |
| 11    | 69                         | 687                                  | 129                                 | 22                         | 96                                   | 5.7                                 | 16                         | 49                                   | 2.1                                 |
| 12    | 60                         | 486                                  | 79                                  | 21                         | 83                                   | 4.8                                 | 17                         | 46                                   | 2.1                                 |
| 13    | 71                         | 356                                  | 68                                  | 21                         | 73                                   | 4.2                                 | 16                         | 43                                   | 1.9                                 |
| 14    | 59                         | 219                                  | 35                                  | 20                         | 61                                   | 3.3                                 | 16                         | 37                                   | 1.6                                 |
| 15    | 51                         | 168                                  | 23                                  | 19                         | 66                                   | 3.5                                 | 16                         | 39                                   | 1.7                                 |
| 16    | 45                         | 206                                  | 25                                  | 19                         | 57                                   | 2.9                                 | 17                         | 36                                   | 1.6                                 |
| 17    | 41                         | 170                                  | 19                                  | 19                         | 58                                   | 2.9                                 | 18                         | 50                                   | 2.4                                 |
| 18    | 39                         | 128                                  | 13                                  | 18                         | 54                                   | 2.6                                 | 19                         | 67                                   | 3.4                                 |
| 19    | 36                         | 107                                  | 10                                  | 18                         | 57                                   | 2.8                                 | 18                         | 47                                   | 2.3                                 |
| 20    | 34                         | 70                                   | 6.5                                 | 18                         | 44                                   | 2.2                                 | 17                         | 39                                   | 1.8                                 |
| 21    | 33                         | 47                                   | 4.1                                 | 18                         | 43                                   | 2.2                                 | 23                         | 54                                   | 7.8                                 |
| 22    | 32                         | 54                                   | 4.7                                 | 17                         | 40                                   | 1.8                                 | 42                         | 116                                  | 24                                  |
| 23    | 32                         | 49                                   | 4.2                                 | 16                         | 34                                   | 1.5                                 | 16                         | 46                                   | 1.9                                 |
| 24    | 32                         | 42                                   | 3.6                                 | 16                         | 32                                   | 1.4                                 | 15                         | 77                                   | 3.1                                 |
| 25    | 31                         | 50                                   | 4.1                                 | 16                         | 38                                   | 1.6                                 | 15                         | 58                                   | 2.3                                 |
| 26    | 30                         | 55                                   | 4.5                                 | 15                         | 50                                   | 2.0                                 | 14                         | 34                                   | 1.3                                 |
| 27    | 29                         | 40                                   | 3.1                                 | 14                         | 65                                   | 2.5                                 | 29                         | 221                                  | 37                                  |
| 28    | 29                         | 59                                   | 4.6                                 | 16                         | 66                                   | 2.9                                 | 28                         | 390                                  | 31                                  |
| 29    | 29                         | 67                                   | 5.2                                 | 14                         | 54                                   | 2.1                                 | 23                         | 180                                  | 13                                  |
| 30    | 28                         | 66                                   | 5.0                                 | 15                         | 51                                   | 2.0                                 | 18                         | 127                                  | 6.2                                 |
| 31    | ---                        | ---                                  | ---                                 | 14                         | 43                                   | 1.6                                 | ---                        | ---                                  | ---                                 |
| JULY  |                            |                                      | AUGUST                              |                            |                                      | SEPTEMBER                           |                            |                                      |                                     |
| 1     | 21                         | 112                                  | 6.2                                 | 13                         | 37                                   | 1.3                                 | 10                         | 54                                   | 1.5                                 |
| 2     | 23                         | 128                                  | 12                                  | 13                         | 37                                   | 1.3                                 | 10                         | 66                                   | 1.8                                 |
| 3     | 21                         | 195                                  | 13                                  | 13                         | 41                                   | 1.4                                 | 10                         | 48                                   | 1.3                                 |
| 4     | 17                         | 122                                  | 5.6                                 | 13                         | 55                                   | 1.9                                 | 10                         | 47                                   | 1.3                                 |
| 5     | 16                         | 79                                   | 3.5                                 | 13                         | 70                                   | 2.4                                 | 9.8                        | 34                                   | .91                                 |
| 6     | 15                         | 58                                   | 2.3                                 | 15                         | 63                                   | 2.5                                 | 9.8                        | 41                                   | 1.1                                 |
| 7     | 15                         | 42                                   | 1.7                                 | 14                         | 65                                   | 2.5                                 | 10                         | 37                                   | .99                                 |
| 8     | 15                         | 42                                   | 1.7                                 | 12                         | 52                                   | 1.8                                 | 11                         | 32                                   | .92                                 |
| 9     | 16                         | 39                                   | 1.6                                 | 13                         | 40                                   | 1.5                                 | 11                         | 46                                   | 1.3                                 |
| 10    | 16                         | 38                                   | 1.6                                 | 12                         | 32                                   | 1.1                                 | 10                         | 63                                   | 1.8                                 |
| 11    | 16                         | 38                                   | 1.6                                 | 12                         | 32                                   | 1.1                                 | 10                         | 64                                   | 1.8                                 |
| 12    | 16                         | 36                                   | 1.5                                 | 12                         | 31                                   | .99                                 | 11                         | 70                                   | 2.0                                 |
| 13    | 15                         | 33                                   | 1.3                                 | 12                         | 35                                   | 1.1                                 | 10                         | 97                                   | 2.7                                 |
| 14    | 14                         | 34                                   | 1.3                                 | 12                         | 42                                   | 1.3                                 | 9.6                        | 62                                   | 1.6                                 |
| 15    | 14                         | 38                                   | 1.4                                 | 12                         | 32                                   | 1.0                                 | 9.2                        | 51                                   | 1.3                                 |
| 16    | 15                         | 35                                   | 1.4                                 | 12                         | 29                                   | .91                                 | 8.8                        | 38                                   | .91                                 |
| 17    | 15                         | 37                                   | 1.4                                 | 11                         | 47                                   | 1.5                                 | 8.9                        | 34                                   | .82                                 |
| 18    | 15                         | 42                                   | 1.7                                 | 11                         | 64                                   | 1.9                                 | 8.7                        | 33                                   | .79                                 |
| 19    | 14                         | 45                                   | 1.7                                 | 11                         | 81                                   | 2.5                                 | 8.7                        | 32                                   | .75                                 |
| 20    | 14                         | 41                                   | 1.5                                 | 11                         | 67                                   | 2.0                                 | 8.5                        | 34                                   | .77                                 |
| 21    | 14                         | 36                                   | 1.4                                 | 11                         | 60                                   | 1.8                                 | 8.6                        | 42                                   | .96                                 |
| 22    | 14                         | 41                                   | 1.5                                 | 11                         | 41                                   | 1.2                                 | 8.5                        | 55                                   | 1.3                                 |
| 23    | 14                         | 39                                   | 1.5                                 | 11                         | 27                                   | .80                                 | 8.3                        | 60                                   | 1.4                                 |
| 24    | 15                         | 48                                   | 2.0                                 | 11                         | 21                                   | .63                                 | 8.6                        | 69                                   | 1.6                                 |
| 25    | 13                         | 46                                   | 1.6                                 | 11                         | 33                                   | .96                                 | 8.3                        | 180                                  | 4.1                                 |
| 26    | 13                         | 37                                   | 1.3                                 | 11                         | 38                                   | 1.1                                 | 8.0                        | 102                                  | 2.2                                 |
| 27    | 13                         | 35                                   | 1.3                                 | 11                         | 36                                   | 1.0                                 | 7.7                        | 78                                   | 1.6                                 |
| 28    | 13                         | 35                                   | 1.3                                 | 11                         | 31                                   | .89                                 | 7.5                        | 59                                   | 1.2                                 |
| 29    | 13                         | 36                                   | 1.3                                 | 11                         | 30                                   | .86                                 | 7.4                        | 51                                   | 1.0                                 |
| 30    | 14                         | 36                                   | 1.4                                 | 10                         | 48                                   | 1.3                                 | 7.2                        | 51                                   | .98                                 |
| 31    | 13                         | 37                                   | 1.3                                 | 10                         | 51                                   | 1.4                                 | ---                        | ---                                  | ---                                 |



07288650 BOGUE PHALIA NEAR LELAND, MS  
(National Water-Quality Assessment station)

LOCATION.--Lat 33°23'49", long 90°50'42", in SW1/4 NW1/4 sec.20, T.18 N., R.6 W., Choctaw Meridian, Washington County, Hydrologic Unit 03030207, County Code 151, at county road bridge 2.7 mi east of Leland and 1.5 mi downstream of U.S. Highway 82.

DRAINAGE AREA.--484 mi<sup>2</sup>, U.S. Army Corps of Engineers.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1, 1995 to current year. Nov. 13, 1945, to September 29, 1992, stage data available; November 1945 to date, measured discharge available; November 14, 1945, to December 31, 1946, daily discharge available in U.S. Army Corps of Engineer's records.

REVISED RECORD.--WDR MS-99-1: 1998.

GAGE.--Water stage recorder. Datum of gage is 86.21 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Estimated daily discharges: Apr. 4-6 and Apr. 16-21. Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE OF PERIOD OF RECORD: Maximum gage height 28.80 ft, Feb. 22, 1991, by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC  | JAN  | FEB  | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP  |
|-------|------|-------|------|------|------|-------|-------|-------|-------|------|------|------|
| 1     | 12   | 39    | 16   | 28   | 196  | 544   | 303   | 50    | 65    | 582  | 412  | 112  |
| 2     | 12   | 54    | 17   | 28   | 287  | 314   | 6360  | 44    | 54    | 387  | 421  | 108  |
| 3     | 12   | 45    | 18   | 42   | 263  | 178   | 9240  | 501   | 99    | 257  | 307  | 94   |
| 4     | 12   | 32    | 19   | 78   | 217  | 116   | e9670 | 4620  | 906   | 186  | 226  | 77   |
| 5     | 11   | 24    | 21   | 61   | 171  | 79    | e9200 | 6060  | 1870  | 146  | 199  | 83   |
| 6     | 11   | 20    | 21   | 40   | 128  | 58    | e8150 | 5570  | 1790  | 125  | 172  | 82   |
| 7     | 11   | 17    | 21   | 32   | 92   | 45    | 6090  | 4790  | 932   | 104  | 160  | 79   |
| 8     | 11   | 15    | 21   | 33   | 70   | 40    | 4190  | 3210  | 443   | 93   | 148  | 84   |
| 9     | 12   | 13    | 22   | 98   | 55   | 37    | 2970  | 1580  | 220   | 99   | 121  | 88   |
| 10    | 12   | 12    | 30   | 162  | 45   | 40    | 2260  | 745   | 133   | 118  | 102  | 96   |
| 11    | 11   | 11    | 35   | 99   | 39   | 91    | 1690  | 379   | 92    | 121  | 104  | 102  |
| 12    | 11   | 10    | 48   | 60   | 36   | 72    | 1280  | 207   | 71    | 105  | 112  | 108  |
| 13    | 11   | 9.9   | 425  | 45   | 36   | 46    | 1330  | 137   | 62    | 94   | 99   | 174  |
| 14    | 11   | 9.7   | 1130 | 37   | 84   | 38    | 1020  | 98    | 62    | 97   | 94   | 211  |
| 15    | 11   | 9.4   | 1050 | 34   | 354  | 39    | 634   | 74    | 72    | 92   | 94   | 184  |
| 16    | 11   | 9.2   | 658  | 32   | 238  | 1480  | e332  | 58    | 69    | 87   | 103  | 139  |
| 17    | 11   | 9.2   | 360  | 30   | 132  | 4410  | e152  | 51    | 75    | 99   | 103  | 94   |
| 18    | 11   | 9.4   | 198  | 30   | 91   | 4600  | e93   | 46    | 97    | 116  | 120  | 67   |
| 19    | 10   | 9.9   | 123  | 29   | 506  | 5510  | e75   | 43    | 163   | 117  | 153  | 51   |
| 20    | 10   | 12    | 84   | 29   | 796  | 6060  | e65   | 43    | 263   | 111  | 152  | 43   |
| 21    | 10   | 12    | 65   | 28   | 617  | 4600  | e59   | 43    | 306   | 117  | 138  | 39   |
| 22    | 10   | 11    | 54   | 28   | 357  | 2580  | 55    | 49    | 282   | 117  | 131  | 34   |
| 23    | 11   | 12    | 45   | 29   | 194  | 1090  | 55    | 48    | 293   | 115  | 142  | 32   |
| 24    | 10   | 12    | 39   | 29   | 120  | 464   | 61    | 44    | 250   | 117  | 164  | 32   |
| 25    | 10   | 12    | 35   | 30   | 82   | 223   | 75    | 41    | 178   | 112  | 171  | 31   |
| 26    | 10   | 13    | 33   | 30   | 71   | 138   | 147   | 38    | 142   | 128  | 174  | 27   |
| 27    | 10   | 13    | 31   | 30   | 391  | 262   | 182   | 37    | 122   | 123  | 195  | 25   |
| 28    | 10   | 14    | 30   | 33   | 1110 | 322   | 128   | 42    | 191   | 119  | 170  | 23   |
| 29    | 10   | 14    | 29   | 36   | 883  | 288   | 87    | 56    | 440   | 116  | 142  | 22   |
| 30    | 10   | 14    | 29   | 52   | ---  | 442   | 63    | 61    | 703   | 127  | 133  | 20   |
| 31    | 12   | ---   | 28   | 97   | ---  | 269   | ---   | 66    | ---   | 199  | 126  | ---  |
| TOTAL | 337  | 497.7 | 4735 | 1449 | 7661 | 34475 | 66016 | 28831 | 10445 | 4526 | 5088 | 2361 |
| MEAN  | 10.9 | 16.6  | 153  | 46.7 | 264  | 1112  | 2201  | 930   | 348   | 146  | 164  | 78.7 |
| MAX   | 12   | 54    | 1130 | 162  | 1110 | 6060  | 9670  | 6060  | 1870  | 582  | 421  | 211  |
| MIN   | 10   | 9.2   | 16   | 28   | 36   | 37    | 55    | 37    | 54    | 87   | 94   | 20   |
| CFSM  | .02  | .03   | .32  | .10  | .55  | 2.30  | 4.55  | 1.92  | .72   | .30  | .34  | .16  |
| IN.   | .03  | .04   | .36  | .11  | .59  | 2.65  | 5.07  | 2.22  | .80   | .35  | .39  | .18  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

|      | 1996 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|
| MEAN | 141  | 159  | 762  | 1512 | 900  |
| MAX  | 576  | 413  | 1384 | 3144 | 1815 |
| (WY) | 1998 | 1997 | 1997 | 1999 | 1999 |
| MIN  | 6.73 | 6.84 | 153  | 46.7 | 256  |
| (WY) | 1996 | 1996 | 2000 | 2000 | 1996 |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1996 - 2000

|                          | 1999 CALENDAR YEAR | 2000 WATER YEAR | 1996 - 2000 |
|--------------------------|--------------------|-----------------|-------------|
| ANNUAL TOTAL             | 251850.7           | 166421.7        |             |
| ANNUAL MEAN              | 690                | 455             | 629         |
| HIGHEST ANNUAL MEAN      |                    |                 | 947         |
| LOWEST ANNUAL MEAN       |                    |                 | 346         |
| HIGHEST DAILY MEAN       | 9390               | Feb 1           | 9670        |
| LOWEST DAILY MEAN        | 9.2                | Nov 16          | 6.3         |
| ANNUAL SEVEN-DAY MINIMUM | 9.5                | Nov 13          | 6.4         |
| INSTANTANEOUS PEAK FLOW  |                    | 9750            | 9750        |
| INSTANTANEOUS PEAK STAGE |                    | 26.88           | 26.88       |
| INSTANTANEOUS LOW FLOW   |                    | 9.1             | 6.1         |
| ANNUAL RUNOFF (CFSM)     | 1.43               | .94             | 1.30        |
| ANNUAL RUNOFF (INCHES)   | 19.36              | 12.79           | 17.67       |
| 10 PERCENT EXCEEDS       | 1980               | 760             | 1790        |
| 50 PERCENT EXCEEDS       | 134                | 84              | 150         |
| 90 PERCENT EXCEEDS       | 12                 | 12              | 16          |

e Estimated



## YAZOO RIVER BASIN

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1996 to January 1998.

WATER TEMPERATURE: July 1996 to January 1998.

INSTRUMENTATION.--Specific conductance and water temperature data logger from July 1996 to December 1998.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE      | TIME  | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)        | OXYGEN, DIS-SOLVED (MG/L) (00300)                  | PH WATER WHOLE FIELD (STANDARD UNITS) (00400)           | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)   | TEMPER-ATURE WATER (DEG C) (00010)                | CALCIUM DIS-SOLVED (MG/L AS CA) (00915)                   | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)             | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)             | SODIUM, DIS-SOLVED (MG/L AS NA) (00930)           | ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086) |                                                    |
|-----------|-------|--------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------|-------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|
|           |       |                                                        |                                                    |                                                         |                                           |                                                   |                                                           |                                                         |                                                        |                                                   |                                                          |                                                    |
| OCT 06... | 1030  | 12                                                     | 6.7                                                | 7.9                                                     | 681                                       | 18.5                                              | 88.0                                                      | 26.1                                                    | 2.2                                                    | 14.0                                              | 314                                                      |                                                    |
| NOV 04... | 1015  | 32                                                     | 6.2                                                | 7.5                                                     | 409                                       | 13.0                                              | 43.1                                                      | 15.1                                                    | 8.4                                                    | 17.0                                              | 142                                                      |                                                    |
| DEC 07... | 1100  | 20                                                     | 8.0                                                | 7.6                                                     | 573                                       | 12.5                                              | 77.4                                                      | 23.2                                                    | 2.3                                                    | 13.1                                              | 266                                                      |                                                    |
| JAN 21... | 1200  | 28                                                     | 12.7                                               | 7.6                                                     | 479                                       | 10.5                                              | 61.8                                                      | 18.5                                                    | 3.6                                                    | 14.9                                              | 203                                                      |                                                    |
| DATE      |       | BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)         | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)               | SILICA, DIS-SOLVED (MG/L AS SiO2) (00955) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945)          | NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)    | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)      | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)        | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)         |
| OCT 06... | 383   | 5.1                                                    | .2                                                 | 21.9                                                    | 45.9                                      | E.10                                              | .20                                                       | <.020                                                   | <.050                                                  | <.010                                             | .040                                                     |                                                    |
| NOV 04... | 171   | 11.8                                                   | .2                                                 | 10.8                                                    | 50.5                                      | .83                                               | 1.3                                                       | .120                                                    | .993                                                   | .063                                              | .286                                                     |                                                    |
| DEC 07... | 325   | 142                                                    | .2                                                 | 17.2                                                    | 114                                       | .16                                               | .63                                                       | <.020                                                   | <.050                                                  | <.010                                             | .017                                                     |                                                    |
| JAN 21... | 248   | 9.0                                                    | .2                                                 | 14.8                                                    | 39.2                                      | .29                                               | .93                                                       | .066                                                    | .183                                                   | <.010                                             | .034                                                     |                                                    |
| DATE      |       | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)      | PHOS-PHORUS TOTAL (MG/L AS P) (00665)              | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | IRON, DIS-SOLVED (UG/L AS FE) (01046)     | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)       | 2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) | ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)             | ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)             | ALPHA BHC, DIS-SOLVED (UG/L) (34253)              | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)               | BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673) |
| OCT 06... | .030  | .115                                                   | 390                                                | <10                                                     | 284                                       | <.003                                             | <.002                                                     | <.002                                                   | <.002                                                  | .005                                              | <.002                                                    |                                                    |
| NOV 04... | .258  | .471                                                   | 265                                                | 30                                                      | 61                                        | <.003                                             | <.002                                                     | <.002                                                   | <.002                                                  | .009                                              | <.002                                                    |                                                    |
| DEC 07... | <.010 | .114                                                   | 352                                                | <10                                                     | 183                                       | <.003                                             | <.002                                                     | <.002                                                   | <.002                                                  | .007                                              | <.002                                                    |                                                    |
| JAN 21... | .019  | .230                                                   | 300                                                | E10                                                     | 111                                       | <.003                                             | <.002                                                     | <.002                                                   | <.002                                                  | .010                                              | <.002                                                    |                                                    |
| DATE      |       | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)             | CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)    | CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)   | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)       | DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)             | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)      | DI-AZINON, WATER, DISS, SOLVED (UG/L) (39572)          | DI-ELDRIN, WATER, DISS, SOLVED (UG/L) (39381)     | DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)     | EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)      |
| OCT 06... | <.002 | <.003                                                  | <.003                                              | <.004                                                   | <.004                                     | <.002                                             | <.002                                                     | <.002                                                   | <.001                                                  | <.017                                             | <.002                                                    |                                                    |
| NOV 04... | <.002 | <.003                                                  | <.003                                              | <.004                                                   | .045                                      | <.002                                             | <.002                                                     | <.010                                                   | <.001                                                  | <.017                                             | <.002                                                    |                                                    |
| DEC 07... | <.002 | <.003                                                  | <.003                                              | <.004                                                   | <.004                                     | <.002                                             | <.002                                                     | <.002                                                   | <.001                                                  | <.017                                             | <.002                                                    |                                                    |
| JAN 21... | <.002 | <.003                                                  | <.003                                              | <.004                                                   | .010                                      | <.002                                             | <.002                                                     | E.003                                                   | <.001                                                  | <.017                                             | <.002                                                    |                                                    |
| DATE      |       | ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)   | ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672) | FONOFOS WATER DISS REC (UG/L) (04095)                   | LINDANE DIS-SOLVED (UG/L) (39341)         | LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666) | MALA-THION, DIS-SOLVED (UG/L) (39532)                     | METHYL AZIN-THION, WAT FLT 0.7 U GF, REC (UG/L) (82686) | METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667) | METO-LACHLOR WATER DISSOLV (UG/L) (39415)         | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)          | MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671) |
| OCT 06... | <.004 | <.003                                                  | <.003                                              | <.004                                                   | <.002                                     | .171                                              | <.001                                                     | <.006                                                   | .006                                                   | <.004                                             | .194                                                     |                                                    |
| NOV 04... | <.004 | <.003                                                  | <.003                                              | <.004                                                   | <.060                                     | .042                                              | <.001                                                     | <.006                                                   | .119                                                   | <.004                                             | .090                                                     |                                                    |
| DEC 07... | <.004 | <.003                                                  | <.003                                              | <.004                                                   | <.002                                     | <.005                                             | <.001                                                     | <.006                                                   | .010                                                   | <.004                                             | .099                                                     |                                                    |
| JAN 21... | <.004 | <.003                                                  | <.003                                              | <.004                                                   | <.002                                     | <.005                                             | <.001                                                     | <.006                                                   | .034                                                   | <.004                                             | .126                                                     |                                                    |

## YAZOO RIVER BASIN

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07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE      | NAPROP-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U | P.P.<br>DDE                              | PARA-<br>THION,<br>DIS-                     | PEB-<br>ULATE<br>WATER<br>FLTRD<br>0.7 U | PENDI-<br>METH-<br>ALIN<br>WAT FLT<br>0.7 U | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U  | PHORATE<br>WATER<br>FLTRD<br>0.7 U        | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC  | PRON-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U | PROPA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC                    | PRO-<br>PANIL<br>WATER<br>FLTRD<br>0.7 U |
|-----------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|---------------------------------------------------------------|------------------------------------------|
|           | GF, REC                                     | DISSOLV                                  | SOLVED                                      | GF, REC                                  | GF, REC                                     | GF, REC                                     | GF, REC                                   | UG/L                                      | GF, REC                                   | UG/L                                                          | GF, REC                                  |
|           | (UG/L)                                      | (UG/L)                                   | (UG/L)                                      | (UG/L)                                   | (UG/L)                                      | (UG/L)                                      | (UG/L)                                    | (UG/L)                                    | (UG/L)                                    | (UG/L)                                                        | (UG/L)                                   |
|           | (82684)                                     | (34653)                                  | (39542)                                     | (82669)                                  | (82683)                                     | (82687)                                     | (82664)                                   | (04037)                                   | (82676)                                   | (04024)                                                       | (82679)                                  |
| OCT 06... | <.003                                       | <.006                                    | <.004                                       | <.004                                    | <.004                                       | <.005                                       | <.002                                     | E.006                                     | <.003                                     | <.007                                                         | <.004                                    |
| NOV 04... | <.003                                       | <.006                                    | <.004                                       | <.004                                    | <.004                                       | <.005                                       | <.002                                     | E.010                                     | <.003                                     | <.007                                                         | <.004                                    |
| DEC 07... | <.003                                       | <.006                                    | <.004                                       | <.004                                    | <.004                                       | <.005                                       | <.002                                     | <.018                                     | <.003                                     | <.007                                                         | <.004                                    |
| JAN 21... | <.003                                       | <.006                                    | <.004                                       | <.004                                    | <.004                                       | <.005                                       | <.002                                     | <.018                                     | <.003                                     | <.007                                                         | <.004                                    |
| DATE      | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U    | THIO-<br>BENCARB<br>WATER<br>FLTRD<br>0.7 U | TRIAL-<br>LATE<br>WATER<br>FLTRD<br>0.7 U | TRI-<br>FLUR-<br>ALIN<br>WAT FLT<br>0.7 U | SEDI-<br>MENT,<br>SUS-<br>PENDE           | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |                                          |
|           | GF, REC                                     | REC                                      | GF, REC                                     | GF, REC                                  | GF, REC                                     | GF, REC                                     | GF, REC                                   | GF, REC                                   | GF, REC                                   | THAN                                                          |                                          |
|           | (UG/L)                                      | (UG/L)                                   | (UG/L)                                      | (UG/L)                                   | (UG/L)                                      | (UG/L)                                      | (UG/L)                                    | (UG/L)                                    | (MG/L)                                    | MM                                                            |                                          |
|           | (82685)                                     | (04035)                                  | (82670)                                     | (82665)                                  | (82675)                                     | (82681)                                     | (82678)                                   | (82661)                                   | (80154)                                   | (70331)                                                       |                                          |
| OCT 06... | <.013                                       | <.005                                    | .015                                        | <.007                                    | <.013                                       | .005                                        | <.001                                     | <.002                                     | 184                                       | 70                                                            |                                          |
| NOV 04... | <.013                                       | .036                                     | <.010                                       | <.007                                    | <.013                                       | <.010                                       | <.001                                     | <.002                                     | 151                                       | 94                                                            |                                          |
| DEC 07... | <.013                                       | <.010                                    | .014                                        | <.007                                    | <.013                                       | <.002                                       | <.001                                     | <.002                                     | 98                                        | 93                                                            |                                          |
| JAN 21... | <.013                                       | .218                                     | .012                                        | <.007                                    | <.013                                       | <.002                                       | <.001                                     | <.002                                     | 112                                       | 92                                                            |                                          |

## YAZOO RIVER BASIN

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS  
(National Water-Quality Assessment station)

LOCATION.--Lat 32°26'35", long 90°54'51", in SE1/4 SE1/4 sec.4, T.17 N., R.3 E., Washington Meridian, Warren County, Hydrologic Unit 08030208, on left bank at downstream abandoned Eagle Lake Ferries site, 1.5 mi downstream from Steele Bayou, 2.5 mi northwest of Long Lake, and at river mile 9.5 upstream of the confluence of the Yazoo River Diversion Canal with the Mississippi River.

DRAINAGE AREA.--13,355 mi<sup>2</sup>, approximately, U.S. Army Corps of Engineers.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is sea level (U.S. Army Corps of Engineers benchmark).

REMARKS.--Estimated daily discharges: Feb. 28, 29, Mar 22 - Apr. 27, Apr. 30 - May 3, and Jun. 25- Jul. 2. Records good except estimated daily discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR     | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 1     | 7270   | 6590   | 7170   | 4630   | 5450   | 3770   | e63000  | e7470  | 3180   | e2000  | 4480   | 4650   |
| 2     | 7240   | 7600   | 6980   | 4380   | 6070   | 5000   | e64500  | e7160  | 2200   | e3500  | 4950   | 4770   |
| 3     | 7050   | 7690   | 6900   | 4500   | 6080   | 6220   | e66000  | e6930  | 1740   | 6220   | 5550   | 5130   |
| 4     | 6680   | 7830   | 6450   | 4570   | 5340   | 6060   | e69000  | 7670   | 2220   | 6280   | 6050   | 5210   |
| 5     | 6530   | 7200   | 5870   | 5030   | 4640   | 6400   | e70000  | 11500  | 4680   | 5070   | 6860   | 5420   |
| 6     | 6580   | 6840   | 5140   | 5570   | 3840   | 7150   | e70500  | 16800  | 11000  | 2550   | 5720   | 5540   |
| 7     | 6550   | 6740   | 4570   | 6360   | 3460   | 7540   | e71000  | 18300  | 12300  | 2850   | 5380   | 5650   |
| 8     | 6690   | 6590   | 4600   | 5660   | 3160   | 9990   | e70000  | 18300  | 12800  | 5300   | 6050   | 6080   |
| 9     | 6950   | 6270   | 4550   | 3390   | 2730   | 9720   | e69500  | 18100  | 10200  | 6500   | 5430   | 6050   |
| 10    | 6940   | 6010   | 4250   | 2140   | 2730   | 7990   | e68300  | 16400  | 7980   | 6400   | 5310   | 5750   |
| 11    | 6850   | 5910   | 3990   | 2410   | 2490   | 8000   | e66500  | 16200  | 6620   | 6830   | 5620   | 5570   |
| 12    | 6760   | 6070   | 3800   | 4630   | 2710   | 9630   | e63100  | 17800  | 5440   | 6810   | 5540   | 5660   |
| 13    | 6820   | 6440   | 4240   | 4870   | 3060   | 11600  | e60000  | 16100  | 4450   | 5860   | 5210   | 5670   |
| 14    | 7080   | 6760   | 5400   | 4190   | 3410   | 10500  | e57000  | 14900  | 4010   | 5210   | 4810   | 5640   |
| 15    | 7110   | 6900   | 5690   | 4250   | 3820   | 8170   | e52000  | 12400  | 3390   | 4960   | 4650   | 5770   |
| 16    | 6950   | 6910   | 7470   | 4220   | 3780   | 9560   | e47500  | 9870   | 3220   | 4120   | 4470   | 5780   |
| 17    | 6880   | 6870   | 9270   | 4140   | 3910   | 13400  | e43000  | 8760   | 2880   | 3670   | 4320   | 5690   |
| 18    | 7000   | 6820   | 10000  | 4030   | 4440   | 16700  | e38700  | 8160   | 3210   | 4640   | 4570   | 5610   |
| 19    | 6600   | 6840   | 9990   | 4040   | 4500   | 20900  | e34000  | 7890   | 3570   | 3750   | 4920   | 5080   |
| 20    | 6430   | 6850   | 8520   | 4040   | 5330   | 33900  | e26000  | 8780   | 3560   | 3770   | 5060   | 5120   |
| 21    | 6270   | 6790   | 8410   | 3660   | 4970   | 36600  | e19900  | 8400   | 3200   | 4000   | 5690   | 4750   |
| 22    | 6180   | 6750   | 8770   | 3470   | 4970   | e36100 | e15900  | 18400  | 3350   | 3950   | 6090   | 4970   |
| 23    | 6110   | 6800   | 7260   | 3210   | 4470   | e38000 | e14300  | 13500  | 2950   | 3170   | 5850   | 5100   |
| 24    | 6010   | 6730   | 6610   | 3120   | 3810   | e40000 | e12500  | 5150   | 1730   | 2410   | 5490   | 4910   |
| 25    | 5930   | 6890   | 6490   | 2900   | 2710   | e42000 | e11900  | 3630   | e1400  | 2720   | 5340   | 4980   |
| 26    | 5980   | 8180   | 6380   | 3030   | 1580   | e43500 | e10000  | 3560   | e1450  | 2990   | 5250   | 5090   |
| 27    | 6020   | 8100   | 6170   | 3190   | 993    | e47800 | e8560   | 4130   | e1550  | 3520   | 5110   | 5240   |
| 28    | 5920   | 7850   | 6460   | 3240   | e720   | e53500 | 7140    | 4410   | e1700  | 3580   | 4950   | 5320   |
| 29    | 5810   | 7470   | 6080   | 3470   | e690   | e57600 | 4800    | 3400   | e1580  | 3730   | 4880   | 4820   |
| 30    | 5790   | 7300   | 5390   | 3610   | ---    | e60000 | e7720   | 3580   | e1700  | 3940   | 4760   | 4820   |
| 31    | 5770   | ---    | 4960   | 3920   | ---    | e60500 | ---     | 4350   | ---    | 4090   | 4910   | ---    |
| TOTAL | 202750 | 208590 | 197830 | 123870 | 105863 | 727800 | 1282320 | 322000 | 129260 | 134390 | 163270 | 159840 |
| MEAN  | 6540   | 6953   | 6382   | 3996   | 3650   | 23480  | 42740   | 10390  | 4309   | 4335   | 5267   | 5328   |
| MAX   | 7270   | 8180   | 10000  | 6360   | 6080   | 60500  | 71000   | 18400  | 12800  | 6830   | 6860   | 6080   |
| MIN   | 5770   | 5910   | 3800   | 2140   | 690    | 3770   | 4800    | 3400   | 1400   | 2000   | 4320   | 4650   |
| CFSM  | .49    | .52    | .48    | .30    | .27    | 1.76   | 3.20    | .78    | .32    | .32    | .39    | .40    |
| IN.   | .56    | .58    | .55    | .35    | .29    | 2.03   | 3.57    | .90    | .36    | .37    | .45    | .45    |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

|      | MEAN  | 1979  | 10590 | 17290 | 26880 | 28180 | 24280 | 28630 | 14830 | 13560 | 11220 | 9615  | 9064 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| MAX  | 14700 | 14330 | 30020 | 38410 | 45070 | 33560 | 43620 | 29700 | 24420 | 21180 | 14730 | 13570 |      |
| (WY) | 1998  | 1997  | 1997  | 1998  | 1997  | 1998  | 1997  | 1997  | 1997  | 1997  | 1997  | 1997  |      |
| MIN  | 4819  | 6953  | 6382  | 3996  | 3650  | 12200 | 9416  | 4202  | 4309  | 4335  | 5267  | 5328  |      |
| (WY) | 1999  | 2000  | 2000  | 2000  | 2000  | 1996  | 1998  | 1996  | 2000  | 2000  | 2000  | 2000  |      |

| SUMMARY STATISTICS       | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1996 - 2000 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 6301610                | 3757783             |                         |
| ANNUAL MEAN              | 17260                  | 10270               | 16880                   |
| HIGHEST ANNUAL MEAN      |                        |                     | 25400                   |
| LOWEST ANNUAL MEAN       |                        |                     | 10270                   |
| HIGHEST DAILY MEAN       | 58800                  | Feb 27              | 71000                   |
| LOWEST DAILY MEAN        | 3800                   | Dec 12              | 690                     |
| ANNUAL SEVEN-DAY MINIMUM | 4290                   | Dec 7               | 1590                    |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 71000a                  |
| INSTANTANEOUS PEAK STAGE |                        |                     | 76.74                   |
| ANNUAL RUNOFF (CFSM)     | 1.29                   |                     | .77                     |
| ANNUAL RUNOFF (INCHES)   | 17.55                  |                     | 10.47                   |
| 10 PERCENT EXCEEDS       | 40000                  |                     | 18300                   |
| 50 PERCENT EXCEEDS       | 9460                   |                     | 5780                    |
| 90 PERCENT EXCEEDS       | 6430                   |                     | 3190                    |

e Estimated

a Maximum observed.

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1996 to January 1998.

WATER TEMPERATURE: June 1996 to January 1998.

REMARKS.--Site affected by backwater from the Mississippi River. Little Sunflower River Drainage Structure WY00 closure dates: Oct. 1-Mar. 19, Apr. 23-May 7, May 12-July 3, July 5-Sept. 20, Sept. 22-30 (furnished by U.S. Army Corps of Engineers). Steele Bayou Drainage Structure WY00 closure dates: Oct. 21-26 (1 gate open 0.5 ft), Nov. 28-Dec. 3 (1 gate open 0.5 ft), Dec. 29-Jan. 3 (1 gate open 0.5 ft), Jan. 9-10 (1 gate open 0.5 ft), Jan. 22-25 (1 gate open 0.5 ft), Feb. 17, Feb. 28-Mar. 2, June 25-July 3, Sept. 19-22 (furnished by U.S. Army Corps of Engineers). Twice-daily measurements of specific conductance and water temperature collected by local observer from June 1996 to January 1998. In water years 1961-62 and 1972-93, data were collected 8.5 mi upstream (station 07288800).

## WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------|
| OCT   |      |                                                |                                                                      |                                                              |                                                 |                                                                              |                                             |
| 04... | 1130 | 6.8                                            | 7.4                                                                  | 150                                                          | 23.5                                            | --                                                                           | --                                          |
| 18... | 1030 | 7.2                                            | 7.5                                                                  | 183                                                          | 22.5                                            | --                                                                           | --                                          |
| NOV   |      |                                                |                                                                      |                                                              |                                                 |                                                                              |                                             |
| 03... | 1120 | 7.6                                            | 7.5                                                                  | 171                                                          | 17.0                                            | --                                                                           | --                                          |
| 16... | 0945 | 8.6                                            | 7.1                                                                  | 110                                                          | 17.0                                            | --                                                                           | --                                          |
| DEC   |      |                                                |                                                                      |                                                              |                                                 |                                                                              |                                             |
| 03... | 1130 | 9.8                                            | 7.2                                                                  | 122                                                          | 13.5                                            | --                                                                           | --                                          |
| 15... | 1100 | 9.3                                            | 7.7                                                                  | 355                                                          | 12.5                                            | --                                                                           | --                                          |
| JAN   |      |                                                |                                                                      |                                                              |                                                 |                                                                              |                                             |
| 10... | 1215 | 9.9                                            | 7.1                                                                  | 191                                                          | 12.0                                            | --                                                                           | --                                          |
| 26... | 1300 | 16.5                                           | 7.4                                                                  | 213                                                          | 9.5                                             | --                                                                           | --                                          |
| FEB   |      |                                                |                                                                      |                                                              |                                                 |                                                                              |                                             |
| 10... | 1100 | 12.5                                           | 7.2                                                                  | 254                                                          | 10.5                                            | --                                                                           | --                                          |
| 24... | 1115 | 8.9                                            | 7.6                                                                  | 331                                                          | 15.5                                            | --                                                                           | --                                          |
| MAR   |      |                                                |                                                                      |                                                              |                                                 |                                                                              |                                             |
| 10... | 1030 | 6.4                                            | 7.1                                                                  | 193                                                          | 18.5                                            | --                                                                           | --                                          |
| 22... | 1100 | 6.0                                            | 6.6                                                                  | 91                                                           | 16.0                                            | --                                                                           | --                                          |
| 22... | 1115 | 6.2                                            | 6.3                                                                  | 91                                                           | 16.0                                            | 50.0                                                                         | 1.00                                        |
| 22... | 1116 | 6.2                                            | 6.3                                                                  | 91                                                           | 16.0                                            | 50.0                                                                         | 14.0                                        |
| 22... | 1117 | 6.2                                            | 6.5                                                                  | 91                                                           | 16.0                                            | 100                                                                          | 1.00                                        |
| 22... | 1118 | 6.0                                            | 6.5                                                                  | 92                                                           | 16.0                                            | 100                                                                          | 30.0                                        |
| 22... | 1119 | 6.1                                            | 6.5                                                                  | 91                                                           | 16.0                                            | 150                                                                          | 1.00                                        |
| 22... | 1120 | 5.9                                            | 6.5                                                                  | 91                                                           | 16.0                                            | 150                                                                          | 31.0                                        |
| 22... | 1121 | 6.3                                            | 6.6                                                                  | 90                                                           | 16.0                                            | 250                                                                          | 1.00                                        |
| 22... | 1122 | 6.0                                            | 6.6                                                                  | 90                                                           | 16.0                                            | 250                                                                          | 23.0                                        |
| 22... | 1123 | 5.9                                            | 6.6                                                                  | 90                                                           | 16.0                                            | 300                                                                          | 1.00                                        |
| 22... | 1124 | 6.0                                            | 6.6                                                                  | 90                                                           | 16.0                                            | 300                                                                          | 15.0                                        |
| APR   |      |                                                |                                                                      |                                                              |                                                 |                                                                              |                                             |
| 07... | 1130 | 6.2                                            | 7.1                                                                  | 59                                                           | 17.5                                            | --                                                                           | --                                          |
| 21... | 1200 | 5.3                                            | 6.6                                                                  | 107                                                          | 20.5                                            | --                                                                           | --                                          |
| MAY   |      |                                                |                                                                      |                                                              |                                                 |                                                                              |                                             |
| 04... | 1145 | 5.7                                            | 7.0                                                                  | 145                                                          | 22.0                                            | --                                                                           | --                                          |
| 04... | 1146 | 6.0                                            | 6.8                                                                  | 140                                                          | 22.5                                            | 75.0                                                                         | 1.00                                        |
| 04... | 1147 | 5.7                                            | 6.9                                                                  | 132                                                          | 22.0                                            | 75.0                                                                         | 18.0                                        |
| 04... | 1148 | 6.1                                            | 6.9                                                                  | 159                                                          | 23.0                                            | 125                                                                          | 1.00                                        |
| 04... | 1149 | 5.6                                            | 7.0                                                                  | 133                                                          | 22.0                                            | 125                                                                          | 23.0                                        |
| 04... | 1150 | 5.8                                            | 6.9                                                                  | 153                                                          | 22.5                                            | 175                                                                          | 1.00                                        |
| 04... | 1151 | 5.5                                            | 7.0                                                                  | 134                                                          | 22.0                                            | 175                                                                          | 24.0                                        |
| 04... | 1152 | 5.9                                            | 6.9                                                                  | 145                                                          | 22.5                                            | 250                                                                          | 1.00                                        |
| 04... | 1153 | 5.3                                            | 6.9                                                                  | 140                                                          | 22.0                                            | 250                                                                          | 19.0                                        |
| 31... | 1200 | 6.2                                            | 7.3                                                                  | 214                                                          | 30.0                                            | --                                                                           | --                                          |
| 31... | 1201 | 7.4                                            | 7.4                                                                  | 220                                                          | 31.0                                            | 40.0                                                                         | 1.00                                        |
| 31... | 1202 | 5.6                                            | 7.2                                                                  | 223                                                          | 28.0                                            | 40.0                                                                         | 14.0                                        |
| 31... | 1203 | 7.0                                            | 7.3                                                                  | 214                                                          | 31.0                                            | 80.0                                                                         | 1.00                                        |
| 31... | 1204 | 5.5                                            | 7.2                                                                  | 219                                                          | 28.0                                            | 80.0                                                                         | 25.0                                        |
| 31... | 1205 | 6.9                                            | 7.3                                                                  | 202                                                          | 30.5                                            | 120                                                                          | 1.00                                        |
| 31... | 1206 | 5.5                                            | 7.2                                                                  | 219                                                          | 28.0                                            | 120                                                                          | 24.5                                        |
| 31... | 1207 | 6.1                                            | 7.2                                                                  | 201                                                          | 29.5                                            | 160                                                                          | 1.00                                        |
| 31... | 1208 | 5.5                                            | 7.2                                                                  | 221                                                          | 28.0                                            | 160                                                                          | 27.5                                        |
| 31... | 1209 | 6.1                                            | 7.3                                                                  | 203                                                          | 30.0                                            | 200                                                                          | 1.00                                        |
| 31... | 1210 | 5.6                                            | 7.2                                                                  | 211                                                          | 28.0                                            | 200                                                                          | 28.0                                        |
| 31... | 1211 | 7.1                                            | 7.3                                                                  | 207                                                          | 31.5                                            | 240                                                                          | 1.00                                        |
| 31... | 1212 | 5.4                                            | 7.3                                                                  | 221                                                          | 28.0                                            | 240                                                                          | 19.0                                        |
| JUN   |      |                                                |                                                                      |                                                              |                                                 |                                                                              |                                             |
| 05... | 1200 | 5.0                                            | 6.9                                                                  | 180                                                          | 29.0                                            | --                                                                           | --                                          |
| 05... | 1201 | 5.3                                            | 7.0                                                                  | 180                                                          | 29.0                                            | 30.0                                                                         | 1.00                                        |
| 05... | 1202 | 5.1                                            | 7.0                                                                  | 180                                                          | 29.0                                            | 30.0                                                                         | 16.0                                        |
| 05... | 1203 | 5.3                                            | 6.9                                                                  | 178                                                          | 29.0                                            | 100                                                                          | 1.00                                        |
| 05... | 1204 | 5.2                                            | 6.9                                                                  | 180                                                          | 29.0                                            | 100                                                                          | 34.0                                        |
| 05... | 1205 | 5.3                                            | 6.8                                                                  | 176                                                          | 29.0                                            | 150                                                                          | 1.00                                        |
| 05... | 1206 | 4.9                                            | 6.9                                                                  | 180                                                          | 29.0                                            | 150                                                                          | 32.0                                        |
| 05... | 1207 | 5.2                                            | 6.7                                                                  | 176                                                          | 29.0                                            | 250                                                                          | 1.00                                        |
| 05... | 1208 | 4.8                                            | 6.8                                                                  | 176                                                          | 29.0                                            | 250                                                                          | 24.5                                        |
| 19... | 1230 | 5.8                                            | 7.3                                                                  | 181                                                          | 32.0                                            | --                                                                           | --                                          |
| 19... | 1231 | 6.6                                            | 7.3                                                                  | 178                                                          | 31.5                                            | 50.0                                                                         | 1.00                                        |
| 19... | 1232 | 5.6                                            | 7.2                                                                  | 187                                                          | 28.5                                            | 50.0                                                                         | 22.0                                        |
| 19... | 1233 | 6.8                                            | 7.3                                                                  | 175                                                          | 32.0                                            | 75.0                                                                         | 1.00                                        |
| 19... | 1234 | 5.8                                            | 7.2                                                                  | 188                                                          | 28.0                                            | 75.0                                                                         | 27.0                                        |
| 19... | 1235 | 7.4                                            | 7.3                                                                  | 175                                                          | 34.0                                            | 100                                                                          | 1.00                                        |
| 19... | 1236 | 5.8                                            | 7.2                                                                  | 189                                                          | 28.0                                            | 100                                                                          | 30.0                                        |
| 19... | 1237 | 7.6                                            | 7.3                                                                  | 173                                                          | 31.5                                            | 125                                                                          | 1.00                                        |
| 19... | 1238 | 6.0                                            | 7.3                                                                  | 189                                                          | 28.0                                            | 125                                                                          | 25.0                                        |
| 19... | 1239 | 7.7                                            | 7.4                                                                  | 173                                                          | 32.0                                            | 150                                                                          | 1.00                                        |
| 19... | 1240 | 5.8                                            | 7.3                                                                  | 188                                                          | 28.0                                            | 150                                                                          | 17.0                                        |

## YAZOO RIVER BASIN

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

|       |      | DIS-CHARGE,<br>INST. CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | ALKA-<br>LINITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3<br>(39086) | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>MG/L AS<br>HCO3<br>(00453) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) |  |
|-------|------|----------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|--|
| JUL   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 12... | 1200 | 4.3                                                            | 7.2                                                     | 215                                                             | 31.5                                                           | --                                                      | --                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 12... | 1201 | 4.9                                                            | 7.3                                                     | 171                                                             | 32.5                                                           | 50.0                                                    | 50.0                                                                         | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 12... | 1202 | 3.9                                                            | 7.2                                                     | 210                                                             | 31.0                                                           | 50.0                                                    | 50.0                                                                         | 21.0                                                                       | 21.0                                                           | 21.0                                                          |  |
| 12... | 1203 | 4.6                                                            | 7.3                                                     | 187                                                             | 32.0                                                           | 150                                                     | 150                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 12... | 1204 | 3.8                                                            | 7.2                                                     | 242                                                             | 31.5                                                           | 150                                                     | 150                                                                          | 33.0                                                                       | 33.0                                                           | 33.0                                                          |  |
| 12... | 1205 | 4.8                                                            | 7.1                                                     | 204                                                             | 32.0                                                           | 250                                                     | 250                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 12... | 1206 | 4.0                                                            | 7.2                                                     | 266                                                             | 31.5                                                           | 250                                                     | 250                                                                          | 28.0                                                                       | 28.0                                                           | 28.0                                                          |  |
| 26... | 1100 | 6.1                                                            | 7.5                                                     | 280                                                             | 32.0                                                           | --                                                      | --                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 26... | 1201 | 5.3                                                            | 7.4                                                     | 264                                                             | 32.0                                                           | 50.0                                                    | 50.0                                                                         | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 26... | 1202 | 5.0                                                            | 7.5                                                     | 442                                                             | 31.5                                                           | 50.0                                                    | 50.0                                                                         | 20.0                                                                       | 20.0                                                           | 20.0                                                          |  |
| 26... | 1203 | 6.1                                                            | 7.5                                                     | 251                                                             | 33.0                                                           | 150                                                     | 150                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 26... | 1204 | 4.6                                                            | 7.5                                                     | 442                                                             | 31.0                                                           | 150                                                     | 150                                                                          | 27.5                                                                       | 27.5                                                           | 27.5                                                          |  |
| 26... | 1205 | 6.2                                                            | 7.5                                                     | 255                                                             | 33.0                                                           | 200                                                     | 200                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 26... | 1206 | 4.9                                                            | 7.6                                                     | 439                                                             | 31.0                                                           | 200                                                     | 200                                                                          | 22.0                                                                       | 22.0                                                           | 22.0                                                          |  |
| AUG   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 09... | 1200 | 5.5                                                            | 7.1                                                     | 200                                                             | 31.5                                                           | --                                                      | --                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 09... | 1231 | 6.8                                                            | 7.2                                                     | 216                                                             | 32.5                                                           | 50.0                                                    | 50.0                                                                         | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 09... | 1232 | 5.0                                                            | 7.2                                                     | 254                                                             | 31.5                                                           | 50.0                                                    | 50.0                                                                         | 14.0                                                                       | 14.0                                                           | 14.0                                                          |  |
| 09... | 1233 | 6.0                                                            | 7.1                                                     | 187                                                             | 32.0                                                           | 150                                                     | 150                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 09... | 1234 | 5.0                                                            | 7.2                                                     | 249                                                             | 31.5                                                           | 150                                                     | 150                                                                          | 22.0                                                                       | 22.0                                                           | 22.0                                                          |  |
| 09... | 1235 | 5.8                                                            | 7.1                                                     | 193                                                             | 32.0                                                           | 200                                                     | 200                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 09... | 1236 | 4.9                                                            | 7.1                                                     | 209                                                             | 31.5                                                           | 200                                                     | 200                                                                          | 14.0                                                                       | 14.0                                                           | 14.0                                                          |  |
| 22... | 1100 | 6.6                                                            | 7.8                                                     | 201                                                             | 31.5                                                           | --                                                      | --                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 22... | 1101 | 6.8                                                            | 7.4                                                     | 190                                                             | 32.0                                                           | 50.0                                                    | 50.0                                                                         | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 22... | 1102 | 6.0                                                            | 7.3                                                     | 233                                                             | 31.0                                                           | 50.0                                                    | 50.0                                                                         | 14.0                                                                       | 14.0                                                           | 14.0                                                          |  |
| 22... | 1103 | 6.6                                                            | 7.2                                                     | 166                                                             | 32.0                                                           | 150                                                     | 150                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 22... | 1104 | 5.9                                                            | 7.3                                                     | 232                                                             | 31.0                                                           | 150                                                     | 150                                                                          | 24.0                                                                       | 24.0                                                           | 24.0                                                          |  |
| 22... | 1105 | 6.3                                                            | 7.2                                                     | 176                                                             | 31.5                                                           | 200                                                     | 200                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 22... | 1106 | 6.0                                                            | 7.2                                                     | 178                                                             | 31.0                                                           | 150                                                     | 150                                                                          | 11.0                                                                       | 11.0                                                           | 11.0                                                          |  |
| SEP   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 07... | 1200 | 5.8                                                            | 7.3                                                     | 175                                                             | 29.0                                                           | --                                                      | --                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 07... | 1201 | 5.7                                                            | 7.3                                                     | 204                                                             | 29.0                                                           | 50.0                                                    | 50.0                                                                         | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 07... | 1202 | 5.7                                                            | 7.3                                                     | 205                                                             | 29.0                                                           | 50.0                                                    | 50.0                                                                         | 16.0                                                                       | 16.0                                                           | 16.0                                                          |  |
| 07... | 1203 | 5.8                                                            | 7.2                                                     | 182                                                             | 29.0                                                           | 150                                                     | 150                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 07... | 1204 | 5.7                                                            | 7.3                                                     | 205                                                             | 29.0                                                           | 150                                                     | 150                                                                          | 20.0                                                                       | 20.0                                                           | 20.0                                                          |  |
| 07... | 1205 | 5.8                                                            | 7.2                                                     | 159                                                             | 29.0                                                           | 250                                                     | 250                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 07... | 1206 | 5.7                                                            | 7.2                                                     | 160                                                             | 29.0                                                           | 250                                                     | 250                                                                          | 6.00                                                                       | 6.00                                                           | 6.00                                                          |  |
| 14... | 1200 | 6.4                                                            | 7.2                                                     | 218                                                             | 28.0                                                           | --                                                      | --                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 14... | 1201 | 5.9                                                            | 7.2                                                     | 222                                                             | 28.0                                                           | 50.0                                                    | 50.0                                                                         | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 14... | 1202 | 6.4                                                            | 7.2                                                     | 239                                                             | 28.0                                                           | 150                                                     | 150                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| 14... | 1203 | 6.0                                                            | 7.2                                                     | 239                                                             | 28.0                                                           | 250                                                     | 250                                                                          | 1.00                                                                       | 1.00                                                           | 1.00                                                          |  |
| OCT   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 04... | 1130 | 6640                                                           | --                                                      | --                                                              | --                                                             | 51                                                      | 62                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 18... | 1030 | 7010                                                           | 14.3                                                    | 5.02                                                            | 2.5                                                            | 42                                                      | 51                                                                           | 7.1                                                                        | .1                                                             | .1                                                            |  |
| NOV   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 03... | 1120 | 7370                                                           | --                                                      | --                                                              | --                                                             | 54                                                      | 65                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 16... | 0945 | 6950                                                           | 8.28                                                    | 2.76                                                            | 2.1                                                            | 22                                                      | 26                                                                           | 5.5                                                                        | <.1                                                            | <.1                                                           |  |
| DEC   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 03... | 1130 | 6230                                                           | --                                                      | --                                                              | --                                                             | 35                                                      | 43                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 15... | 1100 | 4290                                                           | 34.7                                                    | 11.4                                                            | 3.9                                                            | 144                                                     | 173                                                                          | 15.9                                                                       | .1                                                             | .1                                                            |  |
| JAN   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 10... | 1215 | 1810                                                           | --                                                      | --                                                              | --                                                             | 73                                                      | 89                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 26... | 1300 | 2940                                                           | 21.0                                                    | 7.14                                                            | 2.9                                                            | 82                                                      | 100                                                                          | 9.1                                                                        | <.1                                                            | <.1                                                           |  |
| FEB   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 10... | 1100 | 2800                                                           | --                                                      | --                                                              | --                                                             | 88                                                      | 107                                                                          | --                                                                         | --                                                             | --                                                            |  |
| 24... | 1115 | 3660                                                           | 24.0                                                    | 8.48                                                            | 4.4                                                            | 106                                                     | 129                                                                          | 20.5                                                                       | .2                                                             | .2                                                            |  |
| MAR   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 10... | 1030 | 7460                                                           | --                                                      | --                                                              | --                                                             | 56                                                      | 68                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 22... | 1100 | 36100                                                          | 7.97                                                    | 2.62                                                            | 3.5                                                            | 73                                                      | 88                                                                           | 3.6                                                                        | .1                                                             | .1                                                            |  |
| APR   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 07... | 1130 | 71000                                                          | --                                                      | --                                                              | --                                                             | 19                                                      | 23                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 21... | 1200 | 19900                                                          | 9.27                                                    | 3.16                                                            | 3.7                                                            | 33                                                      | 40                                                                           | 5.2                                                                        | .1                                                             | .1                                                            |  |
| MAY   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 04... | 1145 | 7680                                                           | --                                                      | --                                                              | --                                                             | 37                                                      | 45                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 31... | 1200 | 3750                                                           | 21.5                                                    | 6.78                                                            | 4.1                                                            | 80                                                      | 96                                                                           | 6.6                                                                        | .1                                                             | .1                                                            |  |
| JUN   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 05... | 1200 | 3890                                                           | --                                                      | --                                                              | --                                                             | 62                                                      | 74                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 19... | 1230 | 4560                                                           | 16.3                                                    | 5.55                                                            | 3.6                                                            | 56                                                      | 68                                                                           | 6.5                                                                        | .1                                                             | .1                                                            |  |
| JUL   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 12... | 1200 | 6770                                                           | --                                                      | --                                                              | --                                                             | 78                                                      | 95                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 26... | 1100 | 2960                                                           | 29.8                                                    | 10.1                                                            | 4.0                                                            | 16.5                                                    | --                                                                           | 9.6                                                                        | .2                                                             | .2                                                            |  |
| AUG   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 09... | 1200 | 5530                                                           | --                                                      | --                                                              | --                                                             | 78                                                      | 95                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 22... | 1100 | 6260                                                           | 17.5                                                    | 6.13                                                            | 2.9                                                            | 11.4                                                    | 65                                                                           | 78                                                                         | 6.7                                                            | .1                                                            |  |
| SEP   |      |                                                                |                                                         |                                                                 |                                                                |                                                         |                                                                              |                                                                            |                                                                |                                                               |  |
| 07... | 1200 | 5700                                                           | --                                                      | --                                                              | --                                                             | 54                                                      | 66                                                                           | --                                                                         | --                                                             | --                                                            |  |
| 14... | 1200 | 6010                                                           | 19.7                                                    | 6.65                                                            | 2.7                                                            | 12.4                                                    | 74                                                                           | 90                                                                         | 7.6                                                            | .1                                                            |  |

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945)                      | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N)<br>(00623) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608)     | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) |
|-------|--------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|
| OCT   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 04... | --                                                           | --                                                                            | .18                                                                          | .70                                                                           | .034                                                                         | .088                                                                     | <.010                                                                    | .033                                                           | .014                                                                     |
| 18... | 5.1                                                          | 10.7                                                                          | .26                                                                          | .63                                                                           | .030                                                                         | .148                                                                     | .011                                                                     | .039                                                           | .027                                                                     |
| NOV   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 03... | --                                                           | --                                                                            | .31                                                                          | .98                                                                           | .048                                                                         | .185                                                                     | <.010                                                                    | .043                                                           | .027                                                                     |
| 16... | 4.1                                                          | 8.9                                                                           | .24                                                                          | .58                                                                           | .029                                                                         | .086                                                                     | <.010                                                                    | .027                                                           | .021                                                                     |
| DEC   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 03... | --                                                           | --                                                                            | .22                                                                          | .70                                                                           | .060                                                                         | .136                                                                     | <.010                                                                    | .027                                                           | .020                                                                     |
| 15... | 11.0                                                         | 17.6                                                                          | .52                                                                          | .86                                                                           | .128                                                                         | .334                                                                     | .016                                                                     | .049                                                           | .035                                                                     |
| JAN   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 10... | --                                                           | --                                                                            | .36                                                                          | .69                                                                           | .172                                                                         | .369                                                                     | .012                                                                     | .037                                                           | .029                                                                     |
| 26... | 9.7                                                          | 12.1                                                                          | .33                                                                          | 1.1                                                                           | <.020                                                                        | .050                                                                     | <.010                                                                    | .012                                                           | <.010                                                                    |
| FEB   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 10... | --                                                           | --                                                                            | .26                                                                          | .29                                                                           | <.020                                                                        | .249                                                                     | <.010                                                                    | .034                                                           | .025                                                                     |
| 24... | 7.0                                                          | 19.0                                                                          | .80                                                                          | 1.2                                                                           | .287                                                                         | .705                                                                     | .020                                                                     | .074                                                           | .055                                                                     |
| MAR   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 10... | --                                                           | --                                                                            | .66                                                                          | 1.2                                                                           | .130                                                                         | .854                                                                     | .035                                                                     | .060                                                           | .047                                                                     |
| 22... | 6.4                                                          | 6.4                                                                           | .59                                                                          | 2.1                                                                           | .140                                                                         | .844                                                                     | .023                                                                     | .026                                                           | .024                                                                     |
| APR   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 07... | --                                                           | --                                                                            | .43                                                                          | 1.7                                                                           | .099                                                                         | .287                                                                     | <.010                                                                    | .040                                                           | .013                                                                     |
| 21... | 6.1                                                          | 5.8                                                                           | .52                                                                          | 1.2                                                                           | .087                                                                         | .373                                                                     | .017                                                                     | .079                                                           | .063                                                                     |
| MAY   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 04... | --                                                           | --                                                                            | .41                                                                          | .91                                                                           | .049                                                                         | .418                                                                     | <.010                                                                    | .054                                                           | .036                                                                     |
| 31... | 9.2                                                          | 11.0                                                                          | .41                                                                          | .84                                                                           | .045                                                                         | .702                                                                     | .030                                                                     | .071                                                           | .054                                                                     |
| JUN   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 05... | --                                                           | --                                                                            | .28                                                                          | .68                                                                           | .023                                                                         | .538                                                                     | <.010                                                                    | .069                                                           | .047                                                                     |
| 19... | 8.1                                                          | 10.4                                                                          | .35                                                                          | .68                                                                           | .023                                                                         | 1.04                                                                     | .012                                                                     | .054                                                           | .043                                                                     |
| JUL   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 12... | --                                                           | --                                                                            | .45                                                                          | .82                                                                           | .035                                                                         | .970                                                                     | .047                                                                     | .072                                                           | .058                                                                     |
| 26... | 7.5                                                          | 16.6                                                                          | .38                                                                          | .61                                                                           | .025                                                                         | .203                                                                     | .085                                                                     | .110                                                           | .086                                                                     |
| AUG   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 09... | --                                                           | --                                                                            | .27                                                                          | .75                                                                           | <.020                                                                        | .340                                                                     | .029                                                                     | .082                                                           | .063                                                                     |
| 22... | 6.5                                                          | 11.9                                                                          | .28                                                                          | .68                                                                           | <.020                                                                        | .115                                                                     | .015                                                                     | .077                                                           | .065                                                                     |
| SEP   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 07... | --                                                           | --                                                                            | .24                                                                          | .58                                                                           | <.020                                                                        | .196                                                                     | <.010                                                                    | .069                                                           | .051                                                                     |
| 14... | 8.3                                                          | 14.0                                                                          | .29                                                                          | .85                                                                           | .043                                                                         | .281                                                                     | .023                                                                     | .072                                                           | .055                                                                     |
|       |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| DATE  | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)        | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076)                                      | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L)<br>(70953)  | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L)<br>(70954) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046)                    | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056)          | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154)           | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>(70331)            |
| OCT   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 04... | .344                                                         | --                                                                            | 64                                                                           | 5.0                                                                           | .1                                                                           | --                                                                       | --                                                                       | 473                                                            | 97                                                                       |
| 18... | .281                                                         | 99                                                                            | 83                                                                           | 8.7                                                                           | .7                                                                           | <10                                                                      | 5                                                                        | 357                                                            | 96                                                                       |
| NOV   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 03... | .590                                                         | --                                                                            | 150                                                                          | 5.6                                                                           | E.3                                                                          | --                                                                       | --                                                                       | 841                                                            | 96                                                                       |
| 16... | .198                                                         | 61                                                                            | 60                                                                           | 8.0                                                                           | .3                                                                           | E10                                                                      | 11                                                                       | 271                                                            | 97                                                                       |
| DEC   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 03... | .193                                                         | --                                                                            | 56                                                                           | 7.1                                                                           | E.4                                                                          | --                                                                       | --                                                                       | 304                                                            | 93                                                                       |
| 15... | .169                                                         | 210                                                                           | 35                                                                           | 11.9                                                                          | E.4                                                                          | <10                                                                      | 16                                                                       | 120                                                            | 95                                                                       |
| JAN   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 10... | .217                                                         | --                                                                            | 43                                                                           | 14.8                                                                          | .6                                                                           | --                                                                       | --                                                                       | 88                                                             | 92                                                                       |
| 26... | .136                                                         | 134                                                                           | 37                                                                           | 50.1                                                                          | E.5                                                                          | E10                                                                      | 141                                                                      | 103                                                            | 95                                                                       |
| FEB   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 10... | .228                                                         | --                                                                            | 47                                                                           | 44.8                                                                          | E.7                                                                          | --                                                                       | --                                                                       | 193                                                            | 97                                                                       |
| 24... | .201                                                         | 183                                                                           | 60                                                                           | E31.6                                                                         | 1.7                                                                          | 10                                                                       | 3                                                                        | 125                                                            | 95                                                                       |
| MAR   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 10... | .285                                                         | --                                                                            | 130                                                                          | 5.4                                                                           | E.3                                                                          | --                                                                       | --                                                                       | 192                                                            | 100                                                                      |
| 22... | .944                                                         | 66                                                                            | 450                                                                          | 2.5                                                                           | <.1                                                                          | 60                                                                       | 48                                                                       | 1110                                                           | 96                                                                       |
| APR   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 07... | .837                                                         | --                                                                            | 300                                                                          | 1.6                                                                           | <.1                                                                          | --                                                                       | --                                                                       | 870                                                            | 93                                                                       |
| 21... | .401                                                         | 72                                                                            | 100                                                                          | 6.4                                                                           | <.1                                                                          | 110                                                                      | 12                                                                       | 169                                                            | 100                                                                      |
| MAY   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 04... | .271                                                         | --                                                                            | 67                                                                           | 1.2                                                                           | <.1                                                                          | --                                                                       | --                                                                       | 112                                                            | 100                                                                      |
| 31... | .289                                                         | 134                                                                           | 60                                                                           | 6.7                                                                           | E.5                                                                          | E10                                                                      | 16                                                                       | 133                                                            | 100                                                                      |
| JUN   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 05... | .202                                                         | --                                                                            | 46                                                                           | .8                                                                            | <.1                                                                          | --                                                                       | --                                                                       | 70                                                             | 100                                                                      |
| 19... | .219                                                         | 119                                                                           | 50                                                                           | 5.7                                                                           | .3                                                                           | 30                                                                       | 6                                                                        | 114                                                            | 100                                                                      |
| JUL   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 12... | .197                                                         | --                                                                            | 48                                                                           | 10.0                                                                          | .7                                                                           | --                                                                       | --                                                                       | 91                                                             | 100                                                                      |
| 26... | .197                                                         | 177                                                                           | 30                                                                           | 11.3                                                                          | .8                                                                           | <10                                                                      | 51                                                                       | 89                                                             | 100                                                                      |
| AUG   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 09... | .291                                                         | --                                                                            | 66                                                                           | 14.2                                                                          | E.9                                                                          | --                                                                       | --                                                                       | 157                                                            | 100                                                                      |
| 22... | .213                                                         | 113                                                                           | 42                                                                           | 13.2                                                                          | .9                                                                           | E10                                                                      | 7                                                                        | 121                                                            | 98                                                                       |
| SEP   |                                                              |                                                                               |                                                                              |                                                                               |                                                                              |                                                                          |                                                                          |                                                                |                                                                          |
| 07... | .233                                                         | --                                                                            | 63                                                                           | 8.0                                                                           | .3                                                                           | --                                                                       | --                                                                       | 174                                                            | 98                                                                       |
| 14... | .366                                                         | 127                                                                           | 73                                                                           | 14.0                                                                          | .2                                                                           | E10                                                                      | 49                                                                       | 256                                                            | 99                                                                       |



## 07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE      | 2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660) | ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260) | ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)      | ALPHA BHC, DIS- SOLVED (UG/L) (34253)               | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)             | BEN-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)   | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)          | CAR-BARYL WATER, FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBO-FURAN WATER, FLTRD 0.7 U GF, REC (UG/L) (82674) | CHLOR-PYRIFOS, DIS- SOLVED (UG/L) (38933)            | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)       | DCPA WATER, FLTRD 0.7 U GF, REC (UG/L) (82682)        |
|-----------|-----------------------------------------------------------|----------------------------------------------|-------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| OCT 18... | <.003                                                     | <.002                                        | <.002                                           | <.002                                               | .317                                                   | <.002                                                | <.002                                               | <.003                                               | <.003                                                 | <.004                                                | .077                                              | <.002                                                 |
| NOV 16... | <.003                                                     | <.002                                        | .005                                            | <.002                                               | .374                                                   | <.002                                                | <.002                                               | <.003                                               | <.003                                                 | <.004                                                | .063                                              | <.002                                                 |
| DEC 15... | <.003                                                     | <.002                                        | <.002                                           | <.002                                               | .074                                                   | <.002                                                | <.002                                               | <.003                                               | <.003                                                 | <.004                                                | .047                                              | <.002                                                 |
| JAN 26... | <.003                                                     | <.002                                        | <.002                                           | <.002                                               | .094                                                   | <.002                                                | <.002                                               | <.003                                               | <.003                                                 | <.004                                                | .033                                              | <.002                                                 |
| FEB 24... | <.003                                                     | .046                                         | <.002                                           | <.002                                               | .060                                                   | <.002                                                | <.002                                               | <.003                                               | <.007                                                 | <.004                                                | .039                                              | <.002                                                 |
| MAR 22... | <.003                                                     | .054                                         | <.002                                           | <.002                                               | .896                                                   | <.002                                                | <.002                                               | <.003                                               | <.003                                                 | <.004                                                | .117                                              | <.002                                                 |
| APR 21... | <.003                                                     | E.041                                        | .006                                            | <.002                                               | .774                                                   | <.002                                                | <.002                                               | <.003                                               | <.013                                                 | <.004                                                | .065                                              | <.002                                                 |
| MAY 31... | <.003                                                     | .031                                         | .010                                            | <.002                                               | .571                                                   | <.002                                                | <.002                                               | <.003                                               | <.003                                                 | <.004                                                | .119                                              | <.002                                                 |
| JUN 19... | <.003                                                     | .024                                         | .014                                            | <.002                                               | 1.18                                                   | <.002                                                | <.002                                               | <.003                                               | <.010                                                 | <.010                                                | .104                                              | <.002                                                 |
| JUL 26... | <.003                                                     | <.002                                        | <.002                                           | <.002                                               | .405                                                   | <.002                                                | <.002                                               | <.003                                               | <.010                                                 | <.004                                                | .861                                              | <.002                                                 |
| AUG 22... | <.003                                                     | <.002                                        | .012                                            | <.002                                               | .496                                                   | <.002                                                | <.002                                               | <.003                                               | <.003                                                 | <.004                                                | .164                                              | <.002                                                 |
| SEP 14... | <.003                                                     | .031                                         | .008                                            | <.002                                               | .414                                                   | <.002                                                | <.002                                               | <.003                                               | <.003                                                 | <.004                                                | .047                                              | <.002                                                 |
| DATE      | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)        | DI-AZINON, DIS- SOLVED (UG/L) (39572)        | DI-ELDRIN, DIS- SOLVED (UG/L) (39381)           | DISUL-FOTON WAT FLT 0.7 U GF, REC (UG/L) (82677)    | EPTC WATER, FLTRD 0.7 U GF, REC (UG/L) (82668)         | ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663) | ETHO-PROP WATER, FLTRD 0.7 U GF, REC (UG/L) (82672) | FONOFOS WATER, DISS, REC (UG/L) (04095)             | LINDANE, DIS- SOLVED (UG/L) (39341)                   | LIN-URON WATER, FLTRD 0.7 U GF, REC (UG/L) (82666)   | MALA-THON, DIS- SOLVED (UG/L) (39532)             | METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686) |
| OCT 18... | E.027                                                     | <.002                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | .120                                              | <.001                                                 |
| NOV 16... | E.041                                                     | <.002                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | <.005                                             | <.001                                                 |
| DEC 15... | E.011                                                     | <.002                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | <.005                                             | <.001                                                 |
| JAN 26... | E.014                                                     | <.002                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | <.005                                             | <.001                                                 |
| FEB 24... | E.007                                                     | <.002                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | <.005                                             | <.001                                                 |
| MAR 22... | E.032                                                     | <.002                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | <.005                                             | <.001                                                 |
| APR 21... | E.050                                                     | <.002                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | <.005                                             | <.001                                                 |
| MAY 31... | E.14                                                      | <.002                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | <.005                                             | <.001                                                 |
| JUN 19... | E.10                                                      | E.004                                        | <.001                                           | <.017                                               | <.005                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | .120                                              | <.001                                                 |
| JUL 26... | E.067                                                     | <.005                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | .260                                                 | .015                                              | <.001                                                 |
| AUG 22... | E.043                                                     | <.002                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | .058                                              | <.001                                                 |
| SEP 14... | E.049                                                     | <.002                                        | <.001                                           | <.017                                               | <.002                                                  | <.004                                                | <.003                                               | <.003                                               | <.004                                                 | <.002                                                | .389                                              | <.001                                                 |
| DATE      | METHYL PARA-THON WAT FLT 0.7 U GF, REC (UG/L) (82667)     | METO-LACHLOR WATER DISSOLV (UG/L) (39415)    | METRI-BOZIN SENCOR WATER DISSOLV (UG/L) (82630) | MOL-INATE WATER, FLTRD 0.7 U GF, REC (UG/L) (82671) | NAPROP-AMIDE WATER, FLTRD 0.7 U GF, REC (UG/L) (82684) | P, P' DDE DISSOLV (UG/L) (34653)                     | PARA-THON, DIS- SOLVED (UG/L) (39542)               | PEN-ULATE WATER, FLTRD 0.7 U GF, REC (UG/L) (82669) | PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)  | PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687) | PHORATE WATER, FLTRD 0.7 U GF, REC (UG/L) (82664) | PRO-METON, WATER, DISS, REC (UG/L) (04037)            |
| OCT 18... | <.006                                                     | .104                                         | <.004                                           | <.004                                               | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | <.018                                                 |
| NOV 16... | <.006                                                     | .079                                         | <.004                                           | <.004                                               | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | <.018                                                 |
| DEC 15... | <.006                                                     | .056                                         | <.004                                           | <.004                                               | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | E.009                                                 |
| JAN 26... | <.006                                                     | .038                                         | <.004                                           | <.004                                               | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | E.003                                                 |
| FEB 24... | <.006                                                     | .071                                         | <.004                                           | .025                                                | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | E.009                                                 |
| MAR 22... | <.006                                                     | .392                                         | .018                                            | <.004                                               | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | .022                                                  |
| APR 21... | <.006                                                     | .443                                         | .027                                            | <.010                                               | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | E.012                                                 |
| MAY 31... | <.006                                                     | 1.82                                         | .192                                            | <.004                                               | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | E.012                                                 |
| JUN 19... | <.006                                                     | 2.15                                         | .116                                            | .517                                                | <.003                                                  | E.004                                                | <.004                                               | <.004                                               | .017                                                  | <.005                                                | <.002                                             | E.005                                                 |
| JUL 26... | <.006                                                     | .299                                         | .009                                            | 1.36                                                | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | <.018                                                 |
| AUG 22... | <.006                                                     | .194                                         | <.004                                           | .129                                                | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | <.018                                                 |
| SEP 14... | <.006                                                     | .077                                         | <.004                                           | <.004                                               | <.003                                                  | <.006                                                | <.004                                               | <.004                                               | <.004                                                 | <.005                                                | <.002                                             | E.007                                                 |

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE      | PRON-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82676) | PROPA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04024) | PRO-<br>PANIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82679) | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670) | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665) | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675) | THIO-<br>BENCARB<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82681) | TRIAL-<br>LATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82678) | TRI-<br>FLUR-<br>ALIN<br>WAT FLT<br>GF, REC<br>(UG/L)<br>(82661) |
|-----------|---------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|
| OCT 18... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .014                                                          | <.010                                                                       | <.007                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | <.002                                                            |
| NOV 16... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .028                                                          | <.010                                                                       | <.007                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | <.002                                                            |
| DEC 15... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .042                                                          | E.006                                                                       | <.007                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | <.004                                                            |
| JAN 26... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .098                                                          | E.006                                                                       | <.007                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | <.002                                                            |
| FEB 24... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .139                                                          | E.004                                                                       | <.018                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | <.002                                                            |
| MAR 22... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .240                                                          | <.010                                                                       | <.007                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | <.002                                                            |
| APR 21... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .043                                                          | E.007                                                                       | <.025                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | E.001                                                            |
| MAY 31... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .021                                                          | .013                                                                        | <.007                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | <.002                                                            |
| JUN 19... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .030                                                          | .011                                                                        | <.007                                                                    | <.013                                                                    | .019                                                                        | <.001                                                                     | <.002                                                            |
| JUL 26... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .018                                                          | <.010                                                                       | <.007                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | <.002                                                            |
| AUG 22... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .024                                                          | <.020                                                                       | <.007                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | <.002                                                            |
| SEP 14... | <.003                                                                     | <.007                                                           | <.004                                                                    | <.013                                                                      | .017                                                          | .011                                                                        | <.007                                                                    | <.013                                                                    | <.002                                                                       | <.001                                                                     | <.002                                                            |

## MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS

LOCATION.--Lat 32°18'45", long 90°54'25", in sec.32, T.16 N., R.3 E., Washington Meridian, Warren County, Hydrologic Unit 08060100, on left bank at downstream side of Interstate 20 bridge, and at mile 435.3.

DRAINAGE AREA.--1,140,500 mi<sup>2</sup>, approximately. The 4,000 mi<sup>2</sup>, approximately, in the Great Divide basin in Southern Wyoming is not included.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: January 1928 to current year. Prior to July 1931, monthly discharge only, published in WSP 1311.

Gage heights: April 1930 to current year in reports of Geological Survey. Since December 1871, referred to canal gages (above 30.0 ft or 9.14 m only, since December 1949), September 1934 to December 1964, referred to bridge gage, in reports of Mississippi River Commission. January 1937 to December 1967, referred to bridge gage, January 1968 to December 1976, referred to gage 1.1 mi upstream and January 1977 to September 1986 referred to gage at mile 435.3 (corrected), in reports of U. S. Army Corps of Engineers. Since May 1873, in reports of National Weather Service.

Extremes of stage, intermittently 1828 to 1871, and since 1871, extremes of discharge for various years 1858 to 1926 and since 1926, annual mean discharges since 1871, and records of daily discharge 1928 to 1964 are available in reports of Mississippi River Commission. Since January 1947 daily discharge in reports of U. S. Army Corps of Engineers. Prior to October 1968, published as Mississippi River near Vicksburg.

REVISED RECORDS.--WRD Miss. 1975: Drainage area.

GAGE.--Water-stage recorder operated by the U. S. Army Corps of Engineers. Datum of gage is 46.22 ft above sea level (U. S. Army Corps of Engineers bench mark) or 46.16 ft above mean gulf level. The U.S. Geological Survey operated a water-stage recorder over the cavity in the fourth pier from left bank at combined highway and railway bridge of Vicksburg Bridge Commission of Warren County, at southern city limits of Vicksburg, 1.5 mi downstream from Yazoo diversion canal, and at mile 435.7 (corrected), operated until January, 1977. Gages used by Mississippi River Commission: Dec. 10, 1871 to Sept. 30, 1929, nonrecording gage at mouth of Yazoo diversion canal, 1.5 mi upstream from bridge gage, since Sept. 30, 1929, nonrecording gage at mouth of Yazoo diversion canal, 1.5 mi upstream from bridge gage, since October 1929, nonrecording gage on Yazoo diversion canal, 1,600 ft upstream from mouth. Gages used by National Weather Service, May 18, 1873 to Oct. 29, 1919, nonrecording gage 0.5 mi upstream from bridge gage, Oct. 30, 1919 to Nov. 30, 1922, nonrecording gage at mouth of Yazoo Canal, Dec. 1, 1922 to Aug. 31, 1934, nonrecording gage on Yazoo diversion canal, Sept. 1, 1934 to Dec. 31, 1962, nonrecording gage at bridge, Jan. 1, 1963 to Dec. 31, 1967, water-stage recorder on left bank near downstream side of bridge, Jan. 1, 1968 to Dec. 31, 1976, on left bank at site 1.1 mi upstream, and since Jan. 1, 1977, on left bank at downstream side of Interstate 20 bridge. All gages at same datum, but readings differ due to slope of water surface between them.

REMARKS.--Natural flow of stream affected by many reservoirs and navigation dams. U. S. Army Corps of Engineers telemeter at station.

COOPERATION.--Records furnished by U. S. Army Corps of Engineers.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1871, 58.4 ft U. S. Army Corps of Engineers gage on Yazoo diversion canal, approximately 56.0 ft, May 4, 1927 (U. S. Geological Survey gage).

Note:--Records for 2000 Water Year will be published in a subsequent report.

## 07289350 BIG BLACK RIVER AT WEST, MS

LOCATION.--Lat 33°11'39", long 89°46'15", in NE1/4 NW1/4 sec.3, T.15 N., R.5 E., Choctaw Meridian, Attala County, Hydrologic Unit 08060201, near right bank on downstream side of bridge on State Highway 19, 0.2 mi east of West, 5.2 mi upstream from Jordan Creek, and 7.1 mi downstream from Zilpha Creek.

DRAINAGE AREA.--1,027 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1971 to current year. July 1936 to December 1946 and January 1947 to 1971 (gage heights and occasional discharge measurements) in reports of U. S. Army Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WDR MS-89-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 249.74 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to June 10, 1948, nonrecording gage, and June 10, 1948, to Nov. 2, 1967, recorder at site about 2,000 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Sept. 11-18. Records good except for estimated daily discharges, which are poor. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1951, reached a stage of 24.09 ft, discharge, 47,000 ft<sup>3</sup>/s, at site about 2,000 ft downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 4 | 1130 | *54,700                           | *25.80              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB   | MAR   | APR    | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|-------|-------|--------|------|------|------|------|------|
| 1     | 138  | 60   | 88   | 107  | 727   | 567   | 1140   | 231  | 106  | 139  | 27   | 17   |
| 2     | 123  | 78   | 81   | 108  | 642   | 419   | 5700   | 209  | 97   | 130  | 35   | 17   |
| 3     | 98   | 74   | 76   | 130  | 508   | 325   | 31400  | 287  | 91   | 107  | 54   | 16   |
| 4     | 77   | 78   | 75   | 385  | 399   | 283   | 51900  | 484  | 87   | 85   | 36   | 16   |
| 5     | 66   | 83   | 79   | 465  | 329   | 262   | 39700  | 335  | 115  | 71   | 34   | 16   |
| 6     | 59   | 79   | 102  | 644  | 285   | 235   | 24500  | 272  | 149  | 61   | 32   | 15   |
| 7     | 56   | 75   | 108  | 519  | 256   | 217   | 14800  | 230  | 140  | 55   | 30   | 15   |
| 8     | 56   | 73   | 101  | 332  | 237   | 206   | 10000  | 217  | 138  | 50   | 29   | 16   |
| 9     | 108  | 71   | 101  | 356  | 225   | 198   | 6580   | 197  | 119  | 48   | 32   | 16   |
| 10    | 161  | 69   | 189  | 484  | 216   | 235   | 4090   | 177  | 104  | 45   | 25   | 18   |
| 11    | 128  | 66   | 219  | 599  | 212   | 1670  | 2760   | 164  | 93   | 42   | 23   | e20  |
| 12    | 121  | 66   | 161  | 575  | 207   | 2200  | 1630   | 151  | 86   | 39   | 21   | e22  |
| 13    | 103  | 66   | 427  | 409  | 206   | 1860  | 1290   | 144  | 80   | 37   | 19   | e26  |
| 14    | 85   | 66   | 484  | 297  | 314   | 1770  | 1630   | 134  | 75   | 35   | 18   | e26  |
| 15    | 74   | 66   | 455  | 254  | 491   | 1810  | 1610   | 125  | 72   | 45   | 18   | e32  |
| 16    | 67   | 65   | 354  | 233  | 649   | 1330  | 1820   | 120  | 71   | 119  | 17   | e39  |
| 17    | 63   | 66   | 235  | 210  | 555   | 775   | 2080   | 114  | 71   | 94   | 17   | e34  |
| 18    | 59   | 65   | 173  | 193  | 409   | 561   | 1960   | 107  | 125  | 64   | 16   | e28  |
| 19    | 58   | 65   | 142  | 186  | 363   | 1050  | 1150   | 105  | 165  | 50   | 15   | 25   |
| 20    | 57   | 72   | 127  | 190  | 377   | 2470  | 669    | 104  | 175  | 40   | 15   | 22   |
| 21    | 59   | 108  | 124  | 188  | 389   | 2870  | 506    | 135  | 158  | 34   | 14   | 21   |
| 22    | 57   | 111  | 141  | 184  | 343   | 2460  | 414    | 141  | 130  | 31   | 14   | 69   |
| 23    | 59   | 114  | 149  | 183  | 288   | 2760  | 351    | 155  | 110  | 29   | 13   | 137  |
| 24    | 57   | 118  | 150  | 181  | 255   | 2970  | 323    | 146  | 95   | 27   | 13   | 115  |
| 25    | 56   | 141  | 145  | 178  | 236   | 2130  | 323    | 126  | 86   | 25   | 13   | 77   |
| 26    | 56   | 124  | 133  | 175  | 227   | 988   | 325    | 121  | 78   | 25   | 15   | 54   |
| 27    | 56   | 134  | 123  | 169  | 326   | 942   | 301    | 117  | 82   | 24   | 25   | 41   |
| 28    | 56   | 121  | 119  | 180  | 495   | 971   | 268    | 119  | 89   | 23   | 23   | 34   |
| 29    | 57   | 112  | 113  | 291  | 626   | 1020  | 251    | 136  | 90   | 22   | 20   | 30   |
| 30    | 56   | 99   | 110  | 479  | ---   | 1280  | 248    | 122  | 155  | 23   | 18   | 28   |
| 31    | 56   | ---  | 108  | 657  | ---   | 1200  | ---    | 113  | ---  | 23   | 18   | ---  |
| TOTAL | 2382 | 2585 | 5192 | 9541 | 10792 | 38034 | 209719 | 5338 | 3232 | 1642 | 699  | 1042 |
| MEAN  | 76.8 | 86.2 | 167  | 308  | 372   | 1227  | 6991   | 172  | 108  | 53.0 | 22.5 | 34.7 |
| MAX   | 161  | 141  | 484  | 657  | 727   | 2970  | 51900  | 484  | 175  | 139  | 54   | 137  |
| MIN   | 56   | 60   | 75   | 107  | 206   | 198   | 248    | 104  | 71   | 22   | 13   | 15   |
| CFSM  | .07  | .08  | .16  | .30  | .36   | 1.19  | 6.81   | .17  | .10  | .05  | .02  | .03  |
| IN.   | .09  | .09  | .19  | .35  | .39   | 1.38  | 7.60   | .19  | .12  | .06  | .03  | .04  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

|      | MEAN | 337  | 809   | 2178 | 3158 | 2721 | 3249 | 2948 | 1800 | 859  | 422  | 217  | 229 |
|------|------|------|-------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 2890 | 5739 | 11820 | 7339 | 6199 | 8406 | 8664 | 9714 | 5186 | 3284 | 1005 | 2054 |     |
| (WY) | 1985 | 1980 | 1983  | 1974 | 1983 | 1980 | 1991 | 1983 | 1989 | 1989 | 1975 | 1979 |     |
| MIN  | 16.3 | 61.3 | 167   | 185  | 372  | 1049 | 190  | 89.9 | 33.6 | 53.0 | 22.5 | 31.1 |     |
| (WY) | 1988 | 1982 | 2000  | 1986 | 2000 | 1985 | 1986 | 1988 | 1988 | 2000 | 2000 | 1987 |     |

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1971 - 2000

|                          | ANNUAL TOTAL | 502090 | 290198 | 1573           |
|--------------------------|--------------|--------|--------|----------------|
| ANNUAL MEAN              | 1376         | 793    | 3821   | 1983           |
| HIGHEST ANNUAL MEAN      |              |        | 423    | 1986           |
| LOWEST ANNUAL MEAN       |              |        | 62400  | May 21 1983    |
| HIGHEST DAILY MEAN       | 18300        | Feb 1  | 51900  | Apr 4          |
| LOWEST DAILY MEAN        | 45           | Sep 24 | 13     | Aug 23 2000    |
| ANNUAL SEVEN-DAY MINIMUM | 46           | Sep 22 | 14     | Aug 19 2000    |
| INSTANTANEOUS PEAK FLOW  |              |        | 54700  | Apr 4          |
| INSTANTANEOUS PEAK STAGE |              |        | 25.80  | Apr 4          |
| INSTANTANEOUS LOW FLOW   |              |        | 12     | Aug 24, 25, 26 |
| ANNUAL RUNOFF (CFSM)     | 1.34         | .77    | 1.53   |                |
| ANNUAL RUNOFF (INCHES)   | 18.19        | 10.51  | 20.81  |                |
| 10 PERCENT EXCEEDS       | 4140         | 976    | 3940   |                |
| 50 PERCENT EXCEEDS       | 179          | 119    | 381    |                |
| 90 PERCENT EXCEEDS       | 57           | 23     | 66     |                |

e Estimated

## BIG BLACK RIVER BASIN

07289730 BIG BLACK RIVER NEAR BENTONIA, MS

LOCATION.--Lat 32°36'10", long 90°21'49". NW1/4 NW1/4 NW1/4 sec. 25, T.9 N., R.2 W., Choctaw Meridian, Madison County, Hydrologic Unit 08060202, on downstream side of U.S. Highway 49 bridge, 2.5 mi south of Benton, and at mile 106.

DRAINAGE AREA.--2,340 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1995 to current year. Stage, 1947 to date in reports of U.S. Army Corps of Engineers. Measured discharge, June 1946 to date.

GAGE.--Water-stage recorder. Datum of gage is 130.18 ft above sea level.

REMARKS.--Estimated daily discharge: Oct. 31 - Nov. 2 and Nov. 25-26. Records good except for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1983 reached a stage of 32.48 ft, discharge 86,000 ft<sup>3</sup>/s. Peak stage of 34.70 ft on May 23, 1930, 3.1 mi upstream at Ragan Station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN   | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|--------|-------|-------|------|------|------|
| 1     |      | e1560 | 254   | 264   | 933   | 560   | 5500   | 782   | 394   | 243  | 177  | 86   |
| 2     | 1340 | e1420 | 239   | 256   | 937   | 628   | 8070   | 730   | 369   | 232  | 164  | 86   |
| 3     | 600  | 1020  | 227   | 291   | 984   | 699   | 15600  | 1540  | 344   | 212  | 152  | 86   |
| 4     | 413  | 621   | 220   | 492   | 976   | 665   | 23500  | 1710  | 343   | 229  | 145  | 84   |
| 5     | 326  | 378   | 221   | 916   | 881   | 567   | 34400  | 1460  | 1010  | 227  | 139  | 82   |
| 6     | 277  | 273   | 209   | 1230  | 750   | 481   | 40400  | 1270  | 1030  | 219  | 148  | 80   |
| 7     | 241  | 234   | 207   | 990   | 637   | 427   | 47700  | 1150  | 689   | 215  | 147  | 80   |
| 8     | 220  | 214   | 215   | 835   | 554   | 394   | 47000  | 966   | 467   | 193  | 137  | 81   |
| 9     | 245  | 205   | 232   | 864   | 493   | 368   | 38600  | 813   | 391   | 184  | 126  | 85   |
| 10    | 373  | 202   | 253   | 791   | 444   | 374   | 30100  | 708   | 371   | 179  | 120  | 89   |
| 11    | 304  | 196   | 249   | 814   | 405   | 1190  | 23000  | 639   | 343   | 164  | 135  | 90   |
| 12    | 350  | 193   | 272   | 820   | 377   | 2520  | 18400  | 592   | 321   | 163  | 166  | 88   |
| 13    | 345  | 187   | 530   | 814   | 377   | 3950  | 16300  | 552   | 295   | 156  | 133  | 102  |
| 14    | 302  | 181   | 795   | 853   | 481   | 3890  | 14300  | 514   | 271   | 149  | 138  | 180  |
| 15    | 267  | 178   | 1040  | 822   | 477   | 3200  | 12600  | 483   | 259   | 143  | 124  | 224  |
| 16    | 249  | 172   | 931   | 710   | 510   | 2640  | 11000  | 459   | 250   | 137  | 116  | 175  |
| 17    | 230  | 170   | 752   | 607   | 520   | 2540  | 7410   | 448   | 245   | 133  | 111  | 143  |
| 18    | 213  | 167   | 646   | 530   | 597   | 2240  | 4190   | 435   | 267   | 129  | 109  | 124  |
| 19    | 199  | 164   | 571   | 483   | 725   | 2330  | 3690   | 409   | 326   | 128  | 107  | 112  |
| 20    | 187  | 167   | 478   | 451   | 678   | 2940  | 3490   | 556   | 532   | 155  | 105  | 103  |
| 21    | 180  | 169   | 434   | 428   | 626   | 3870  | 2800   | 825   | 559   | 191  | 103  | 99   |
| 22    | 174  | 174   | 395   | 418   | 594   | 4180  | 2020   | 604   | 642   | 179  | 101  | 98   |
| 23    | 169  | 182   | 383   | 420   | 549   | 3750  | 1570   | 506   | 536   | 157  | 100  | 102  |
| 24    | 165  | 204   | 412   | 405   | 521   | 3430  | 1400   | 452   | 371   | 143  | 99   | 108  |
| 25    | 163  | e198  | 402   | 388   | 488   | 3320  | 1230   | 426   | 302   | 134  | 97   | 122  |
| 26    | 164  | e206  | 357   | 378   | 448   | 3700  | 1090   | 408   | 267   | 128  | 95   | 117  |
| 27    | 164  | 249   | 329   | 374   | 429   | 3700  | 1010   | 396   | 241   | 125  | 93   | 116  |
| 28    | 165  | 279   | 311   | 415   | 409   | 3300  | 956    | 676   | 226   | 122  | 91   | 145  |
| 29    | 167  | 297   | 299   | 450   | 463   | 3560  | 902    | 687   | 238   | 130  | 90   | 150  |
| 30    | 164  | 274   | 285   | 659   | ---   | 4130  | 848    | 478   | 247   | 134  | 88   | 139  |
| 31    | e220 | ---   | 273   | 925   | ---   | 5290  | ---    | 406   | ---   | 122  | 86   | ---  |
| TOTAL | 9646 | 10134 | 12421 | 19093 | 17263 | 74833 | 419076 | 22080 | 12146 | 5155 | 3742 | 3376 |
| MEAN  | 311  | 338   | 401   | 616   | 595   | 2414  | 13970  | 712   | 405   | 166  | 121  | 113  |
| MAX   | 1340 | 1560  | 1040  | 1230  | 984   | 5290  | 47700  | 1710  | 1030  | 243  | 177  | 224  |
| MIN   | 163  | 164   | 207   | 256   | 377   | 368   | 848    | 396   | 226   | 122  | 86   | 80   |
| CFSM  | .13  | .14   | .17   | .26   | .25   | 1.03  | 5.97   | .30   | .17   | .07  | .05  | .05  |
| IN.   | .15  | .16   | .20   | .30   | .27   | 1.19  | 6.66   | .35   | .19   | .08  | .06  | .05  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

|      | MEAN | 371  | 596  | 3084  | 6191  | 6242 | 6011  | 5356 | 2443 | 2530 | 797  | 488  | 276 |
|------|------|------|------|-------|-------|------|-------|------|------|------|------|------|-----|
| MAX  | 661  | 1013 | 4993 | 10560 | 10210 | 9501 | 13970 | 5577 | 8282 | 1357 | 903  | 510  |     |
| (WY) | 1998 | 1998 | 1999 | 1999  | 1997  | 1997 | 2000  | 1997 | 1997 | 1997 | 1997 | 1996 |     |
| MIN  | 155  | 338  | 401  | 616   | 595   | 2414 | 1224  | 712  | 405  | 166  | 121  | 113  |     |
| (WY) | 1999 | 2000 | 2000 | 2000  | 2000  | 2000 | 1998  | 2000 | 2000 | 2000 | 2000 | 2000 |     |

SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

WATER YEARS 1996 - 2000

|                          |         |        |       |
|--------------------------|---------|--------|-------|
| ANNUAL TOTAL             | 1056693 | 608965 |       |
| ANNUAL MEAN              | 2895    | 1664   |       |
| HIGHEST ANNUAL MEAN      |         |        | 2849  |
| LOWEST ANNUAL MEAN       |         |        | 3963  |
| HIGHEST DAILY MEAN       | 35800   | Feb 1  | 47700 |
| LOWEST DAILY MEAN        | 160     | Aug 24 | 80    |
| ANNUAL SEVEN-DAY MINIMUM | 164     | Sep 22 | 83    |
| INSTANTANEOUS PEAK FLOW  |         |        | 49500 |
| INSTANTANEOUS PEAK STAGE |         |        | 29.76 |
| INSTANTANEOUS LOW FLOW   |         |        | 79    |
| ANNUAL RUNOFF (CFSM)     | 1.24    |        | .71   |
| ANNUAL RUNOFF (INCHES)   | 16.80   |        | 9.68  |
| 10 PERCENT EXCEEDS       | 9910    |        | 2690  |
| 50 PERCENT EXCEEDS       | 646     |        | 370   |
| 90 PERCENT EXCEEDS       | 186     |        | 117   |

e Estimated

## BIG BLACK RIVER BASIN

173

07290000 BIG BLACK RIVER NEAR BOVINA, MS

LOCATION.--Lat 32°20'51", long 90°41'48", in SW1/4 NW1/4 SE1/4 sec.22, T.16 N., R.5 E., Washington Meridian, Hinds County, Hydrologic Unit 08060202, on left bank at downstream side of bridge on U.S. Highway 80 (old), 300 ft upstream from Clear Creek, 0.4 mi upstream from Illinois Central and Gulf Railroad bridge, 2.3 mi east of Bovina, 10.8 mi upstream from Fourteenmile Creek, and at mile 61.7. Records include flow of Clear Creek.

DRAINAGE AREA.--2,812 mi<sup>2</sup> (includes that of Clear Creek).

PERIOD OF RECORD.--February 1936 to current year. Prior to October 1938 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WRD Miss. 1968: 1966-67. WDR MS-79-1: 1978(M). WDR MS-89-1: Drainage area.

GAGE.--Water-stage recorder and supplemental nonrecording gage read twice daily. Datum of gage is 84.93 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to Oct. 23, 1941, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--From information by local residents, floods at Askevs Bridge, 6 mi upstream, reached elevations above NGVD of 1929 as follows: Dec. 20, 1961, 139.2 ft, in 1912 and in January 1927, 139 ft, Apr. 1, 1951, 138.5 ft. A flood in May 1930, reached about the same elevation as that of Apr. 1, 1951, at Askevs Bridge.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 9 | 2000 | *41,900                           | *39.05              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN   | JUL  | AUG  | SEP  |
|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------|------|------|
| 1     | 261   | 379   | 320   | 267   | 807   | 558   | 6220   | 920   | 408   | 334  | 190  | 104  |
| 2     | 1130  | 1400  | 295   | 253   | 848   | 630   | 9670   | 853   | 375   | 334  | 177  | 103  |
| 3     | 1120  | 1550  | 280   | 294   | 855   | 693   | 18600  | 1720  | 353   | 354  | 228  | 101  |
| 4     | 722   | 1060  | 267   | 513   | 895   | 747   | 20300  | 2110  | 327   | 313  | 227  | 101  |
| 5     | 543   | 703   | 266   | 628   | 897   | 747   | 21200  | 2010  | 363   | 300  | 239  | 101  |
| 6     | 436   | 490   | 261   | 975   | 835   | 679   | 28300  | 1840  | 881   | 311  | 227  | 100  |
| 7     | 371   | 351   | 248   | 1190  | 748   | 594   | 36700  | 1520  | 1190  | 304  | 201  | 100  |
| 8     | 331   | 285   | 237   | 958   | 668   | 542   | 39400  | 1320  | 848   | 295  | 201  | 100  |
| 9     | 335   | 254   | 240   | 784   | 608   | 509   | 41100  | 1100  | 566   | 284  | 197  | 102  |
| 10    | 978   | 237   | 314   | 786   | 563   | 986   | 40500  | 945   | 439   | 275  | 185  | 104  |
| 11    | 812   | 228   | 323   | 723   | 530   | 4700  | 38700  | 787   | 394   | 271  | 169  | 107  |
| 12    | 536   | 220   | 346   | 714   | 499   | 3640  | 36200  | 693   | 364   | 261  | 162  | 112  |
| 13    | 429   | 214   | 751   | 732   | 484   | 4070  | 32300  | 658   | 343   | 256  | 167  | 113  |
| 14    | 430   | 211   | 745   | 721   | 597   | 4860  | 27500  | 595   | 323   | 256  | 177  | 109  |
| 15    | 388   | 208   | 923   | 751   | 665   | 4530  | 23500  | 532   | 300   | 248  | 154  | 116  |
| 16    | 342   | 206   | 1070  | 737   | 636   | 4130  | 20100  | 495   | 299   | 243  | 153  | 170  |
| 17    | 309   | 200   | 964   | 641   | 621   | 3360  | 17600  | 469   | 373   | 236  | 143  | 190  |
| 18    | 285   | 196   | 805   | 548   | 622   | 3110  | 15300  | 447   | 444   | 231  | 134  | 161  |
| 19    | 266   | 194   | 698   | 474   | 671   | 4070  | 9590   | 434   | 344   | 246  | 130  | 140  |
| 20    | 249   | 211   | 624   | 413   | 770   | 5000  | 5010   | 458   | 476   | 226  | 127  | 129  |
| 21    | 235   | 210   | 588   | 371   | 751   | 4110  | 3600   | 636   | 1000  | 212  | 125  | 122  |
| 22    | 224   | 197   | 530   | 345   | 714   | 4680  | 2820   | 758   | 1260  | 210  | 122  | 118  |
| 23    | 216   | 195   | 482   | 333   | 678   | 4800  | 2160   | 742   | 974   | 263  | 120  | 122  |
| 24    | 209   | 201   | 449   | 326   | 641   | 4350  | 1800   | 564   | 745   | 255  | 119  | 136  |
| 25    | 203   | 216   | 440   | 314   | 614   | 3970  | 1600   | 473   | 577   | 231  | 117  | 141  |
| 26    | 201   | 234   | 429   | 299   | 595   | 4160  | 1400   | 422   | 459   | 214  | 116  | 137  |
| 27    | 200   | 254   | 382   | 292   | 582   | 4950  | 1250   | 395   | 395   | 204  | 114  | 138  |
| 28    | 199   | 270   | 341   | 345   | 552   | 4980  | 1140   | 389   | 359   | 193  | 125  | 131  |
| 29    | 196   | 301   | 314   | 384   | 529   | 4460  | 1060   | 586   | 349   | 180  | 116  | 129  |
| 30    | 197   | 325   | 296   | 390   | ---   | 5240  | 983    | 697   | 325   | 176  | 109  | 145  |
| 31    | 222   | ---   | 282   | 527   | ---   | 5310  | ---    | 522   | ---   | 184  | 106  | ---  |
| TOTAL | 12575 | 11200 | 14510 | 17028 | 19475 | 99165 | 505603 | 26090 | 15853 | 7900 | 4877 | 3682 |
| MEAN  | 406   | 373   | 468   | 549   | 672   | 3199  | 16850  | 842   | 528   | 255  | 157  | 123  |
| MAX   | 1130  | 1550  | 1070  | 1190  | 897   | 5310  | 41100  | 2110  | 1260  | 354  | 239  | 190  |
| MIN   | 196   | 194   | 237   | 253   | 484   | 509   | 983    | 389   | 299   | 176  | 106  | 100  |
| CFSM  | .14   | .13   | .17   | .20   | .24   | 1.14  | 5.99   | .30   | .19   | .09  | .06  | .04  |
| IN.   | .17   | .15   | .19   | .23   | .26   | 1.31  | 6.69   | .35   | .21   | .10  | .06  | .05  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2000, BY WATER YEAR (WY)

|      | 709  | 1488  | 4109  | 6716  | 7665  | 7964  | 7354  | 4719  | 1796 | 1395  | 854  | 536  |
|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|
| MEAN | 709  | 1488  | 4109  | 6716  | 7665  | 7964  | 7354  | 4719  | 1796 | 1395  | 854  | 536  |
| MAX  | 6547 | 11050 | 27400 | 24360 | 20700 | 19780 | 25100 | 23860 | 9311 | 13730 | 4059 | 3800 |
| (WY) | 1976 | 1958  | 1983  | 1974  | 1983  | 1973  | 1983  | 1997  | 1940 | 1975  | 1979 |      |
| MIN  | 78.8 | 103   | 213   | 216   | 672   | 1040  | 559   | 398   | 210  | 172   | 121  | 106  |
| (WY) | 1955 | 1940  | 1955  | 1956  | 2000  | 1936  | 1963  | 1963  | 1988 | 1952  | 1943 | 1952 |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1936 - 2000

|                          | 1308519 | 737958 | 3780  |
|--------------------------|---------|--------|-------|
| ANNUAL TOTAL             | 1308519 | 737958 | 3780  |
| ANNUAL MEAN              | 3585    | 2016   | 10950 |
| HIGHEST ANNUAL MEAN      |         |        | 1983  |
| LOWEST ANNUAL MEAN       |         |        | 1963  |
| HIGHEST DAILY MEAN       | 44600   | Feb 3  | 90600 |
| LOWEST DAILY MEAN        | 155     | Sep 27 | 67    |
| ANNUAL SEVEN-DAY MINIMUM | 168     | Sep 22 | 67    |
| INSTANTANEOUS PEAK FLOW  |         |        | 92300 |
| INSTANTANEOUS PEAK STAGE |         |        | 40.77 |
| INSTANTANEOUS LOW FLOW   |         |        | 65    |
| ANNUAL RUNOFF (CFSM)     | 1.27    | .72    | 1.34  |
| ANNUAL RUNOFF (INCHES)   | 17.31   | 9.76   | 18.26 |
| 10 PERCENT EXCEEDS       | 11800   | 4070   | 10600 |
| 50 PERCENT EXCEEDS       | 921     | 392    | 1100  |
| 90 PERCENT EXCEEDS       | 223     | 137    | 197   |



07290650 BAYOU PIERRE NEAR WILLOWS, MS

LOCATION.--Lat 32°01'04", long 90°52'37", in NE1/4 sec. 16, T.12 N., R.3 E., Washington Meridian, Claiborne County, Hydrologic Unit 08060203, near right bank at downstream side of bridge on county highway, 1.4 mi upstream from South Fork Bayou Pierre, and 1.7 mi southeast of Willows.

DRAINAGE AREA.--654 mi<sup>2</sup>.

REVISED RECORDS.--WDR MS-89-1: Drainage area.

PERIOD OF RECORD.--Water years 1959-61 (annual maximums), June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 82.32 ft above sea level. Sept. 9, 1958, to May 31, 1961, crest-stage gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 3 | 1300 | *24,000                           | *21.22              | No other peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|-------|------|------|------|------|------|
| 1     | 78   | 73   | 61   | 81   | 90   | 81   | 174   | 85   | 48   | 76   | 144  | 19   |
| 2     | 85   | 79   | 59   | 79   | 85   | 73   | 410   | 83   | 46   | 73   | 190  | 18   |
| 3     | 63   | 69   | 71   | 86   | 81   | 69   | 18300 | 90   | 44   | 77   | 154  | 18   |
| 4     | 52   | 62   | 111  | 105  | 79   | 66   | 7880  | 434  | 44   | 60   | 138  | 18   |
| 5     | 47   | 57   | 86   | 96   | 75   | 64   | 1850  | 355  | 116  | 55   | 76   | 17   |
| 6     | 44   | 54   | 80   | 108  | 72   | 63   | 831   | 200  | 302  | 51   | 55   | 17   |
| 7     | 42   | 53   | 74   | 97   | 71   | 62   | 509   | 139  | 152  | 48   | 49   | 17   |
| 8     | 43   | 52   | 70   | 85   | 70   | 62   | 385   | 106  | 91   | 45   | 87   | 18   |
| 9     | 61   | 51   | 68   | 83   | 69   | 61   | 301   | 90   | 69   | 44   | 96   | 22   |
| 10    | 105  | 50   | 69   | 102  | 69   | 81   | 246   | 86   | 59   | 43   | 38   | 40   |
| 11    | 91   | 50   | 67   | 96   | 70   | 996  | 213   | 82   | 54   | 47   | 35   | 47   |
| 12    | 81   | 50   | 113  | 90   | 69   | 792  | 209   | 74   | 48   | 40   | 37   | 38   |
| 13    | 69   | 49   | 318  | 88   | 69   | 295  | 278   | 69   | 45   | 37   | 33   | 40   |
| 14    | 60   | 49   | 788  | 82   | 70   | 169  | 307   | 65   | 51   | 35   | 30   | 84   |
| 15    | 54   | 49   | 314  | 78   | 69   | 148  | 252   | 60   | 58   | 34   | 28   | 165  |
| 16    | 51   | 50   | 163  | 76   | 66   | 178  | 224   | 58   | 81   | 33   | 27   | 79   |
| 17    | 50   | 49   | 125  | 75   | 66   | 139  | 178   | 57   | 177  | 35   | 26   | 54   |
| 18    | 49   | 49   | 118  | 74   | 68   | 113  | 153   | 56   | 993  | 49   | 24   | 43   |
| 19    | 48   | 50   | 127  | 74   | 85   | 152  | 136   | 54   | 1600 | 78   | 23   | 37   |
| 20    | 48   | 52   | 132  | 73   | 82   | 255  | 124   | 54   | 1260 | 64   | 23   | 33   |
| 21    | 47   | 53   | 176  | 72   | 71   | 185  | 116   | 204  | 634  | 48   | 22   | 34   |
| 22    | 46   | 54   | 170  | 71   | 68   | 171  | 109   | 224  | 312  | 46   | 29   | 39   |
| 23    | 46   | 55   | 169  | 75   | 66   | 334  | 103   | 108  | 187  | 117  | 36   | 49   |
| 24    | 45   | 57   | 134  | 74   | 65   | 239  | 142   | 79   | 139  | 84   | 37   | 57   |
| 25    | 45   | 64   | 111  | 72   | 64   | 159  | 236   | 67   | 112  | 64   | 26   | 157  |
| 26    | 45   | 87   | 100  | 72   | 64   | 215  | 153   | 59   | 118  | 49   | 23   | 90   |
| 27    | 46   | 90   | 94   | 76   | 81   | 776  | 127   | 54   | 133  | 40   | 22   | 62   |
| 28    | 46   | 77   | 88   | 104  | 99   | 778  | 108   | 63   | 164  | 38   | 23   | 49   |
| 29    | 46   | 72   | 85   | 131  | 86   | 467  | 98    | 70   | 109  | 50   | 22   | 41   |
| 30    | 45   | 65   | 84   | 116  | ---  | 366  | 90    | 59   | 88   | 33   | 20   | 37   |
| 31    | 52   | ---  | 82   | 103  | ---  | 206  | ---   | 53   | ---  | 31   | 20   | ---  |
| TOTAL | 1730 | 1771 | 4307 | 2694 | 2139 | 7815 | 34242 | 3337 | 7334 | 1624 | 1593 | 1439 |
| MEAN  | 55.8 | 59.0 | 139  | 86.9 | 73.8 | 252  | 1141  | 108  | 244  | 52.4 | 51.4 | 48.0 |
| MAX   | 105  | 90   | 788  | 131  | 99   | 996  | 18300 | 434  | 1600 | 117  | 190  | 165  |
| MIN   | 42   | 49   | 59   | 71   | 64   | 61   | 90    | 53   | 44   | 31   | 20   | 17   |
| CFSM  | .09  | .09  | .21  | .13  | .11  | .39  | 1.75  | .16  | .37  | .08  | .08  | .07  |
| IN.   | .10  | .10  | .24  | .15  | .12  | .44  | 1.95  | .19  | .42  | .09  | .09  | .07  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2000, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 254  | 487  | 1161 | 1624 | 1615 | 1744 | 1778 | 998  | 427  | 285  | 243  | 144  |
| MAX  | 1885 | 2241 | 5324 | 6064 | 4833 | 5992 | 6776 | 3960 | 1524 | 1637 | 1755 | 565  |
| (WY) | 1965 | 1987 | 1983 | 1990 | 1979 | 1980 | 1983 | 1978 | 1975 | 1989 | 1992 | 1974 |
| MIN  | 26.4 | 53.1 | 139  | 86.9 | 73.8 | 239  | 133  | 60.1 | 58.0 | 52.4 | 37.9 | 48.0 |
| (WY) | 1964 | 1970 | 2000 | 2000 | 2000 | 1967 | 1963 | 1963 | 1988 | 2000 | 1969 | 2000 |

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1961 - 2000 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |        |        |       |       |  |       |       |      |  |
|--------------------------|--------|--------|-------|-------|--|-------|-------|------|--|
| ANNUAL TOTAL             | 175836 |        | 70025 |       |  |       |       |      |  |
| ANNUAL MEAN              | 482    |        | 191   |       |  | 892   |       |      |  |
| HIGHEST ANNUAL MEAN      |        |        |       |       |  | 2099  |       | 1983 |  |
| LOWEST ANNUAL MEAN       |        |        |       |       |  | 191   |       | 2000 |  |
| HIGHEST DAILY MEAN       | 18400  | Jan 30 | 18300 | Apr 3 |  | 72900 | Apr 7 | 1983 |  |
| LOWEST DAILY MEAN        | 41     | Sep 4  | 17    | Sep 5 |  | 17    | Sep 5 | 2000 |  |
| ANNUAL SEVEN-DAY MINIMUM | 43     | Sep 22 | 18    | Sep 2 |  | 18    | Sep 2 | 2000 |  |
| INSTANTANEOUS PEAK FLOW  |        |        | 24000 | Apr 3 |  | 88000 | Apr 7 | 1983 |  |
| INSTANTANEOUS PEAK STAGE |        |        | 21.22 | Apr 3 |  | 29.36 | Apr 7 | 1983 |  |
| ANNUAL RUNOFF (CFPM)     | .74    |        | .29   |       |  | 1.36  |       |      |  |
| ANNUAL RUNOFF (INCHES)   | 10.00  |        | 3.98  |       |  | 18.52 |       |      |  |
| 10 PERCENT EXCEEDS       | 908    |        | 218   |       |  | 1760  |       |      |  |
| 50 PERCENT EXCEEDS       | 106    |        | 72    |       |  | 198   |       |      |  |
| 90 PERCENT EXCEEDS       | 48     |        | 37    |       |  | 57    |       |      |  |

## 175

LOCATION.--Lat 31°30'19", long 90°46'41", in SE1/4 NE1/4 sec.11, T.6 N., R.4 E., Washington Meridian, Franklin County, Hydrologic Unit 08060205, on left bank at upstream side of Illinois Central and Gulf Railroad bridge, 900 ft downstream from bridge on U.S. Highway 84, 0.6 mi upstream from McCall Creek, and 0.8 mi east of Eddiceton.

GAGE.--Water-stage recorder. Datum of gage is 212.22 ft above sea level. Prior to May 18, 1984, at datum 5.0 ft higher. Prior to May 26, 1942, nonrecording gage at site 900 ft upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft<sup>3</sup>/s and maximum (\*):

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | FOR 2000 WATER YEAR | WATER YEARS 1939 - 2000 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

e Estimated



## 177

LOCATION.--Lat 31°13'37", long 91°17'44", in SW1/4 sec.21, T.3 N., R.2 W., Washington Meridian, Wilkinson County, Hydrologic Unit 08060206, near center of span on downstream side of bridge on U.S. Highway 61, 1.5 mi downstream from Fords Creek, 2.8 mi west of Wilkinson, and 8.5 mi north of Woodville, 31 mi upstream from mouth.

PERIOD OF RECORD.--March 1942 to current year. Prior to October 1950, published as Buffalo Bayou near Woodville.

REVISED RECORDS.--WSP 1281: 1943, 1946(M). WDR MS-89-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 94.52 ft above sea level. Prior to June 1, 1942, nonrecording gage at same site. Prior to Oct. 1, 1964, at datum 3.00 ft higher.

REMARKS.--Estimated daily discharges: Dec. 20-21. Records good except for estimated discharges, which are poor. Satellite  
telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 3 | 0345 | *5.320                            | *10.72              |      |      |                                   |                     |

1 UNITED STATES DEPARTMENT OF THE INTERIOR - GEOLOGICAL SURVEY - MS INSTALLATION 02/21/2001

STATION NUMBER 07295000 BUFFALO RIVER NR WOODVILLE, MS STREAM SOURCE AGENCY USGS  
LATITUDE 311335 LONGITUDE 0911745 DRAINAGE AREA 180 DATUM '94.52 STATE 28 COUNTY 157

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 46   | 72   | 45   | 54   | 45   | 42   | 60   | 44   | 30   | 34   | 29   | 17   |
| 2     | 39   | 45   | 44   | 54   | 42   | 41   | 123  | 44   | 30   | 32   | 25   | 17   |
| 3     | 37   | 40   | 46   | 145  | 40   | 39   | 3090 | 45   | 30   | 31   | 33   | 17   |
| 4     | 36   | 39   | 48   | 682  | 39   | 38   | 625  | 98   | 30   | 29   | 25   | 16   |
| 5     | 35   | 40   | 55   | 123  | 38   | 37   | 224  | 483  | 108  | 28   | 29   | 16   |
| 6     | 34   | 40   | 57   | 98   | 38   | 37   | 163  | 134  | 61   | 27   | 24   | 16   |
| 7     | 34   | 40   | 49   | 88   | 39   | 37   | 137  | 69   | 41   | 26   | 22   | 17   |
| 8     | 51   | 40   | 49   | 81   | 41   | 37   | 119  | 56   | 33   | 25   | 38   | 20   |
| 9     | 321  | 40   | 49   | 81   | 39   | 37   | 103  | 51   | 31   | 26   | 38   | 25   |
| 10    | 108  | 40   | 49   | 79   | 38   | 43   | 94   | 48   | 30   | 56   | 24   | 55   |
| 11    | 56   | 40   | 47   | 72   | 38   | 524  | 90   | 46   | 29   | 33   | 21   | 35   |
| 12    | 45   | 41   | 57   | 68   | 38   | 123  | 86   | 44   | 29   | 26   | 22   | 284  |
| 13    | 41   | 41   | 311  | 66   | 39   | 67   | 130  | 44   | 28   | 24   | 20   | 1110 |
| 14    | 38   | 41   | 78   | 61   | 38   | 57   | 90   | 43   | 29   | 23   | 19   | 432  |
| 15    | 37   | 41   | 57   | 57   | 37   | 63   | 79   | 41   | 29   | 22   | 18   | 65   |
| 16    | 37   | 41   | 51   | 56   | 37   | 120  | 73   | 40   | 33   | 22   | 19   | 44   |
| 17    | 38   | 42   | 49   | 54   | 38   | 74   | 68   | 40   | 59   | 21   | 19   | 36   |
| 18    | 38   | 42   | 188  | 53   | 38   | 64   | 64   | 38   | 72   | 22   | 18   | 32   |
| 19    | 38   | 42   | 209  | 52   | 38   | 119  | 60   | 37   | 104  | 21   | 17   | 30   |
| 20    | 41   | 44   | e83  | 49   | 37   | 120  | 58   | 40   | 64   | 20   | 17   | 29   |
| 21    | 40   | 45   | e320 | 47   | 37   | 72   | 56   | 53   | 52   | 20   | 33   | 29   |
| 22    | 39   | 43   | 117  | 48   | 37   | 59   | 54   | 41   | 38   | 19   | 23   | 37   |
| 23    | 38   | 41   | 81   | 53   | 37   | 54   | 55   | 37   | 34   | 20   | 24   | 111  |
| 24    | 38   | 41   | 70   | 54   | 38   | 50   | 199  | 36   | 32   | 21   | 23   | 39   |
| 25    | 38   | 50   | 64   | 48   | 38   | 48   | 82   | 36   | 31   | 19   | 24   | 35   |
| 26    | 39   | 71   | 61   | 47   | 40   | 132  | 57   | 35   | 39   | 19   | 24   | 33   |
| 27    | 39   | 51   | 59   | 47   | 65   | 240  | 52   | 34   | 61   | 31   | 21   | 29   |
| 28    | 39   | 47   | 58   | 59   | 52   | 116  | 50   | 34   | 58   | 31   | 19   | 27   |
| 29    | 38   | 46   | 57   | 61   | 45   | 80   | 47   | 33   | 40   | 24   | 19   | 26   |
| 30    | 38   | 45   | 55   | 52   | ---  | 151  | 44   | 31   | 34   | 29   | 18   | 26   |
| 31    | 67   | ---  | 55   | 48   | ---  | 74   | ---  | 31   | ---  | 32   | 17   | ---  |
| TOTAL | 1603 | 1331 | 2618 | 2637 | 1166 | 2795 | 6232 | 1886 | 1319 | 813  | 722  | 2705 |
| MEAN  | 51.7 | 44.4 | 84.5 | 85.1 | 40.2 | 90.2 | 208  | 60.8 | 44.0 | 26.2 | 23.3 | 90.2 |
| MAX   | 321  | 72   | 320  | 682  | 65   | 524  | 3090 | 483  | 108  | 56   | 38   | 1110 |
| MIN   | 34   | 39   | 44   | 47   | 37   | 37   | 44   | 31   | 28   | 19   | 17   | 16   |
| CFSM  | .29  | .25  | .47  | .47  | .22  | .50  | 1.15 | .34  | .24  | .15  | .13  | .50  |
| IN.   | .33  | .28  | .54  | .24  | .58  | 1.29 | .39  | .27  | .17  | .15  | .5   | .6   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 121  | 179  | 346  | 480  | 526  | 565  | 456  | 274  | 167  | 152  | 95.8 | 118  |
| MAX  | 1169 | 1008 | 1771 | 2402 | 1605 | 2074 | 1539 | 1928 | 991  | 1110 | 429  | 697  |
| (WY) | 1986 | 1949 | 1972 | 1990 | 1987 | 1973 | 1983 | 1953 | 1989 | 1969 | 1992 | 1958 |
| MIN  | 19.5 | 30.0 | 45.7 | 49.2 | 40.2 | 84.4 | 48.8 | 35.3 | 39.1 | 26.2 | 23.3 | 22.9 |
| (WY) | 1964 | 1970 | 1967 | 1981 | 2000 | 1955 | 1963 | 1963 | 1965 | 2000 | 2000 | 1952 |

### SUMMARY STATISTICS

FOR 1999 CALENDAR YEAR

FOR 2000 WATER YEAR

## WATER YEARS 1942 - 2000

|                          |        |        |       |        |       |             |
|--------------------------|--------|--------|-------|--------|-------|-------------|
| ANNUAL TOTAL             | 104362 |        | 25827 |        |       |             |
| ANNUAL MEAN              | 286    |        | 70.6  |        | 290   |             |
| HIGHEST ANNUAL MEAN      |        |        |       |        | 552   | 1983        |
| LOWEST ANNUAL MEAN       |        |        |       |        | 70.6  | 2000        |
| HIGHEST DAILY MEAN       | 13700  | Jan 30 | 3090  | Apr 3  | 30700 | Mar 25 1973 |
| LOWEST DAILY MEAN        | 33     | Sep 23 | 16    | Sep 4  |       | Oct 26 1993 |
| ANNUAL SEVEN-DAY MINIMUM | 34     | Sep 19 | 17    | Aug 31 | 17    | Aug 31 2000 |
| INSTANTANEOUS PEAK FLOW  |        |        | 5320  | Apr 3  | 65000 | Mar 25 1973 |
| INSTANTANEOUS PEAK STAGE |        |        | 10.72 | Apr 3  | 22.30 | Mar 25 1973 |
| ANNUAL RUNOFF (CFSM)     | 1.59   |        | .39   |        | 1.61  |             |
| ANNUAL RUNOFF (INCHES)   | 21.57  |        | 5.34  |        | 21.86 |             |
| 10 PERCENT EXCEEDS       | 400    |        | 103   |        | 479   |             |
| 50 PERCENT EXCEEDS       | 74     |        | 41    |        | 86    |             |
| 90 PERCENT EXCEEDS       | 39     |        | 23    |        | 36    |             |

e Estimated

## MISSISSIPPI RIVER DELTA

07375280 TANGIPAHOA RIVER AT OSYKA, MS

LOCATION.--31°00'44", long 90°27'40", in SW1/4 NW1/4 NW1/4 sec.36, T.1 N., R.7 E., Washington Meridian, Pike County, Hydrologic Unit 08070205, County code 113, on upstream left bank end of bridge on State Highway 584 at Osyka, Ms, about 1/2 mi north northeast of Osyka, MS, and about 1/2 mi upstream of the Louisiana-Mississippi State Line.

DRAINAGE AREA.--158 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1976-91. October 1996 to current water year.

GAGE.--Water-stage recorder. Datum of gage is 215.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 88   | 94   | 80   | 88   | 85   | 93   | 101  | 81   | 55   | 71   | 67   | 58   |
| 2     | 80   | 87   | 78   | 88   | 85   | 92   | 98   | 80   | 55   | 69   | 65   | 57   |
| 3     | 76   | 85   | 79   | 90   | 85   | 91   | 371  | 83   | 55   | 66   | 91   | 57   |
| 4     | 75   | 78   | 81   | 187  | 83   | 91   | 535  | 93   | 55   | 64   | 88   | 55   |
| 5     | 76   | 78   | 86   | 139  | 85   | 89   | 378  | 87   | 58   | 63   | 74   | 55   |
| 6     | 74   | 78   | 88   | 131  | 82   | 87   | 206  | 83   | 62   | 61   | 69   | 55   |
| 7     | 73   | 79   | 83   | 110  | 82   | 88   | 147  | 81   | 63   | 61   | 65   | 55   |
| 8     | 77   | 80   | 82   | 100  | 84   | 88   | 123  | 79   | 59   | 61   | 62   | 57   |
| 9     | 422  | 80   | 82   | 107  | 86   | 88   | 111  | 78   | 56   | 60   | 63   | 64   |
| 10    | 626  | 80   | 83   | 182  | 85   | 89   | 99   | 77   | 62   | 63   | 63   | 92   |
| 11    | 164  | 80   | 83   | 136  | 85   | 111  | 97   | 76   | 63   | 63   | 126  | 76   |
| 12    | 115  | 80   | 86   | 113  | 86   | 136  | 97   | 122  | 61   | 60   | 108  | 94   |
| 13    | 98   | 80   | 132  | 105  | 87   | 106  | 105  | 118  | 59   | 59   | 79   | 186  |
| 14    | 90   | 79   | 110  | 101  | 86   | 98   | 101  | 87   | 59   | 59   | 69   | 255  |
| 15    | 87   | 79   | 98   | 92   | 86   | 100  | 98   | 89   | 62   | 60   | 65   | 156  |
| 16    | 84   | 79   | 90   | 89   | 85   | 133  | 95   | 88   | 62   | 60   | 68   | 105  |
| 17    | 83   | 77   | 85   | 90   | 85   | 116  | 93   | 88   | 64   | 58   | 67   | 81   |
| 18    | 83   | 77   | 124  | 89   | 88   | 107  | 91   | 82   | 88   | 72   | 64   | 70   |
| 19    | 80   | 78   | 201  | 89   | 89   | 124  | 89   | 64   | 85   | 72   | 61   | 65   |
| 20    | 80   | 81   | 123  | 87   | 88   | 142  | 88   | 63   | 76   | 73   | 60   | 64   |
| 21    | 82   | 82   | 177  | 88   | 85   | 116  | 86   | 67   | 71   | 72   | 60   | 64   |
| 22    | 78   | 81   | 151  | 84   | 82   | 106  | 86   | 64   | 69   | 74   | 62   | 67   |
| 23    | 77   | 81   | 113  | 89   | 83   | 102  | 85   | 61   | 70   | 85   | 66   | 69   |
| 24    | 79   | 81   | 101  | 93   | 85   | 97   | 108  | 61   | 67   | 76   | 64   | 76   |
| 25    | 77   | 83   | 96   | 89   | 86   | 95   | 107  | 59   | 67   | 70   | 62   | 83   |
| 26    | 77   | 87   | 92   | 85   | 87   | 98   | 94   | 59   | 115  | 65   | 62   | 80   |
| 27    | 77   | 83   | 90   | 84   | 128  | 110  | 88   | 59   | 189  | 64   | 65   | 67   |
| 28    | 78   | 81   | 90   | 88   | 109  | 111  | 86   | 58   | 102  | 62   | 59   | 61   |
| 29    | 79   | 80   | 89   | 93   | 96   | 104  | 84   | 57   | 86   | 60   | 57   | 60   |
| 30    | 79   | 81   | 88   | 89   | ---  | 121  | 82   | 56   | 77   | 59   | 56   | 59   |
| 31    | 86   | ---  | 88   | 87   | ---  | 112  | ---  | 55   | ---  | 64   | 57   | ---  |
| TOTAL | 3500 | 2429 | 3129 | 3182 | 2548 | 3241 | 4029 | 2355 | 2172 | 2026 | 2144 | 2443 |
| MEAN  | 113  | 81.0 | 101  | 103  | 87.9 | 105  | 134  | 76.0 | 72.4 | 65.4 | 69.2 | 81.4 |
| MAX   | 626  | 94   | 201  | 187  | 128  | 142  | 535  | 122  | 189  | 85   | 126  | 255  |
| MIN   | 73   | 77   | 78   | 84   | 82   | 87   | 82   | 55   | 55   | 58   | 56   | 55   |
| MED   | 80   | 80   | 89   | 90   | 85   | 102  | 98   | 78   | 63   | 63   | 65   | 66   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

|      | 1997 | 1998 | 1999 | 2000 | 1997 | 1998 | 1999 | 2000 | 1997 | 1998 | 1999 | 2000 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 110  | 122  | 195  | 487  | 409  | 339  | 455  | 123  | 156  | 123  | 97.6 | 108  |
| MAX  | 124  | 196  | 430  | 1044 | 839  | 524  | 1355 | 185  | 353  | 157  | 126  | 159  |
| (WY) | 1998 | 1998 | 1998 | 1998 | 1997 | 1999 | 1997 | 1997 | 1997 | 1997 | 1997 | 1998 |
| MIN  | 98.7 | 81.0 | 101  | 103  | 87.9 | 105  | 106  | 76.0 | 72.4 | 65.4 | 69.2 | 79.3 |
| (WY) | 1997 | 2000 | 2000 | 2000 | 2000 | 2000 | 1999 | 2000 | 2000 | 2000 | 2000 | 1999 |

## SUMMARY STATISTICS

## FOR 1999 CALENDAR YEAR

## FOR 2000 WATER YEAR

## WATER YEARS 1997 - 2000

|                          |       |        |       |             |
|--------------------------|-------|--------|-------|-------------|
| ANNUAL TOTAL             | 62753 | 33198  |       |             |
| ANNUAL MEAN              | 172   | 90.7   |       |             |
| HIGHEST ANNUAL MEAN      |       |        | 226   |             |
| LOWEST ANNUAL MEAN       |       |        | 336   | 1997        |
| HIGHEST DAILY MEAN       | 6370  | Jan 30 | 23300 | Apr 28 1997 |
| LOWEST DAILY MEAN        | 68    | Sep 24 | 55    | May 31 2000 |
| ANNUAL SEVEN-DAY MINIMUM | 70    | Sep 18 | 55    | May 29 2000 |
| INSTANTANEOUS PEAK FLOW  |       |        | 977   | Oct 10 1997 |
| INSTANTANEOUS PEAK STAGE |       |        | 11.58 | Oct 10 1997 |
| INSTANTANEOUS LOW FLOW   |       |        | 50    | Jun 9a 2000 |
| 10 PERCENT EXCEEDS       | 191   |        | 115   | 302         |
| 50 PERCENT EXCEEDS       | 92    |        | 83    | 110         |
| 90 PERCENT EXCEEDS       | 77    |        | 60    | 76          |

a Also occurred on June 10.

07377000 AMITE RIVER NEAR DARLINGTON, LA

LOCATION.--Lat 30°53'20", long 90°50'40", in sec. 72, T. 2 S., R. 4 E., St. Helena Meridian, St. Helena Parish, Hydrologic Unit 08070202, near center of span on downstream side of bridge on State Highway 10, 1.5 mi upstream from Collins Creek, and 4.0 mi west of Darlington.

DRAINAGE AREA.--580 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1949 to September 1950 (annual maximum), October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 145.81 ft above sea level. Jan. 13, 1951, to May 28, 1963, water-stage recorder at former channel 700 ft to the left; and July 30, 1963, to Feb. 12, 1964, nonrecording gage at present site. Prior to Oct. 1, 1963, at datum 2.99 ft higher.

REMARKS.--Records good, except for estimated daily discharge, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry and rain gage at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Apr. 4 | ---- | *3,010                            | *6.84               |      |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|-------|-------|-------|-------|------|-------|-------|------|------|------|------|------|
| 1     | 314   | 541   | 328   | 364   | 324  | 313   | e400  | 307  | 215  | 244  | 210  | 186  |
| 2     | 274   | 421   | 329   | 362   | 320  | 308   | e380  | 304  | 214  | 236  | 299  | 185  |
| 3     | 263   | 362   | 331   | 374   | 319  | 306   | e800  | 310  | 212  | 229  | 246  | 181  |
| 4     | 260   | 341   | 334   | 916   | 316  | 300   | 2780  | 399  | 210  | 227  | 250  | 178  |
| 5     | 256   | 338   | 343   | 1490  | 312  | 297   | 1770  | 452  | 231  | 224  | 242  | 174  |
| 6     | 252   | 337   | 345   | e600  | 309  | 295   | 881   | 576  | 262  | 215  | 209  | 171  |
| 7     | 252   | 335   | 345   | 480   | 308  | 295   | 608   | 383  | 242  | 207  | 204  | 170  |
| 8     | 273   | 335   | 339   | 437   | 310  | 296   | 496   | 320  | 229  | 209  | 203  | 178  |
| 9     | 1050  | 335   | 337   | 411   | 312  | 296   | 429   | 294  | 215  | 209  | 277  | 193  |
| 10    | 865   | 334   | 339   | 489   | 311  | 296   | 391   | 281  | 211  | 212  | 271  | 202  |
| 11    | 549   | 334   | 338   | 442   | 311  | 342   | 371   | 271  | 211  | 316  | 259  | 202  |
| 12    | 394   | 330   | 348   | 396   | 309  | 505   | 385   | 266  | 207  | 243  | 227  | 216  |
| 13    | 339   | 328   | 400   | 376   | 311  | 432   | 515   | 263  | 205  | 210  | 205  | 251  |
| 14    | 318   | 330   | 498   | 359   | 310  | 362   | 539   | 257  | 205  | 202  | 196  | 470  |
| 15    | 308   | 329   | 445   | 347   | 305  | 346   | 438   | 253  | 208  | 200  | 192  | 484  |
| 16    | 303   | 327   | 378   | 341   | 304  | 360   | 398   | 250  | 210  | 198  | 199  | 317  |
| 17    | 300   | 326   | 356   | 339   | 304  | 377   | 369   | 248  | 230  | 196  | 199  | 247  |
| 18    | 294   | 326   | 397   | 338   | 305  | 361   | 348   | 247  | 271  | 233  | 193  | 223  |
| 19    | 293   | 327   | 610   | 337   | 305  | 366   | 336   | 246  | 261  | 205  | 188  | 217  |
| 20    | 292   | 333   | 559   | 334   | 300  | 411   | 327   | 246  | 459  | 222  | 185  | 219  |
| 21    | 291   | 336   | 582   | 325   | 296  | 418   | 321   | 248  | 460  | 209  | 184  | 238  |
| 22    | 290   | 337   | 643   | 323   | 295  | 383   | 315   | 252  | 321  | 214  | 189  | 242  |
| 23    | 288   | 334   | 528   | 331   | 298  | 358   | 310   | 245  | 262  | 262  | 216  | 243  |
| 24    | 286   | 333   | 456   | 338   | 300  | 340   | 351   | 241  | 237  | 213  | 237  | 246  |
| 25    | 283   | 337   | 417   | 333   | 300  | 330   | 370   | 238  | 230  | 204  | 208  | 236  |
| 26    | 284   | 346   | 394   | 323   | 305  | 335   | 335   | 236  | 243  | 198  | 205  | 227  |
| 27    | 286   | 348   | 384   | 319   | 346  | 384   | 313   | 233  | 318  | 193  | 207  | 227  |
| 28    | 286   | 341   | 376   | 328   | 351  | 415   | 306   | 229  | 277  | 192  | 196  | 223  |
| 29    | 286   | 335   | 371   | 339   | 328  | 420   | 313   | 225  | 258  | 204  | 189  | 221  |
| 30    | 293   | 331   | 366   | 338   | ---  | 439   | 312   | 220  | 246  | 195  | 185  | 220  |
| 31    | 688   | ---   | 365   | 329   | ---  | e420  | ---   | 218  | ---  | 198  | 184  | ---  |
| TOTAL | 11010 | 10347 | 12581 | 13158 | 9024 | 11106 | 16207 | 8758 | 7560 | 6719 | 6654 | 6987 |
| MEAN  | 355   | 345   | 406   | 424   | 311  | 358   | 540   | 283  | 252  | 217  | 215  | 233  |
| MAX   | 1050  | 541   | 643   | 1490  | 351  | 505   | 2780  | 576  | 460  | 316  | 299  | 484  |
| MIN   | 252   | 326   | 328   | 319   | 295  | 295   | 306   | 218  | 205  | 192  | 184  | 170  |
| CFSM  | .61   | .59   | .70   | .73   | .54  | .62   | .93   | .49  | .43  | .37  | .37  | .40  |
| IN.   | .71   | .66   | .81   | .84   | .58  | .71   | 1.04  | .56  | .48  | .43  | .43  | .45  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

|      | MEAN | 560  | 1076 | 1269 | 1693 | 1584 | 1540 | 922  | 586  | 503  | 432  | 478  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 2964 | 2528 | 4106 | 3870 | 4793 | 5194 | 6032 | 4275 | 2915 | 2184 | 1491 | 2081 |
| (WY) | 1965 | 1958 | 1972 | 1998 | 1966 | 1980 | 1983 | 1953 | 1975 | 1989 | 1975 | 1975 |
| MIN  | 197  | 225  | 263  | 339  | 311  | 358  | 346  | 257  | 252  | 217  | 215  | 220  |
| (WY) | 1964 | 1970 | 1967 | 1957 | 2000 | 2000 | 1963 | 1965 | 2000 | 2000 | 2000 | 1963 |

|                          |        |        |  |  |  |  |      |       |        |        |      |      |
|--------------------------|--------|--------|--|--|--|--|------|-------|--------|--------|------|------|
| ANNUAL TOTAL             | 253505 | 120111 |  |  |  |  |      |       |        |        |      |      |
| ANNUAL MEAN              | 695    | 328    |  |  |  |  |      |       |        |        |      |      |
| HIGHEST ANNUAL MEAN      |        |        |  |  |  |  |      |       |        | 914    |      |      |
| LOWEST ANNUAL MEAN       |        |        |  |  |  |  |      |       |        | 1924   |      | 1983 |
| HIGHEST DAILY MEAN       | 17100  | Mar 14 |  |  |  |  | 2780 | Apr 4 | 58500  | Apr 7  | 1983 |      |
| LOWEST DAILY MEAN        | 244    | Sep 24 |  |  |  |  | 170  | Sep 7 | 170    | Sep 7  | 2000 |      |
| ANNUAL SEVEN-DAY MINIMUM | 246    | Sep 22 |  |  |  |  | 177  | Sep 2 | 177    | Sep 2  | 2000 |      |
| INSTANTANEOUS PEAK FLOW  |        |        |  |  |  |  | 3010 | Apr 4 | 104000 | Jan 25 | 1990 |      |
| INSTANTANEOUS PEAK STAGE |        |        |  |  |  |  | 6.84 | Apr 4 | 22.05  | Jan 25 | 1990 |      |
| INSTANTANEOUS LOW FLOW   |        |        |  |  |  |  | 167  | Sep 7 | 167    | Sep 7  | 2000 |      |
| INSTANTANEOUS LOW STAGE  |        |        |  |  |  |  | 1.70 | Sep 7 | .39a   | Sep 6  | 1990 |      |
| ANNUAL RUNOFF (CFSM)     | 1.20   |        |  |  |  |  | .57  |       | 1.58   |        |      |      |
| ANNUAL RUNOFF (INCHES)   | 16.26  |        |  |  |  |  | 7.70 |       | 21.41  |        |      |      |
| 10 PERCENT EXCEEDS       | 942    |        |  |  |  |  | 437  |       | 1570   |        |      |      |
| 50 PERCENT EXCEEDS       | 419    |        |  |  |  |  | 308  |       | 415    |        |      |      |
| 90 PERCENT EXCEEDS       | 283    |        |  |  |  |  | 204  |       | 252    |        |      |      |

a Also occurred Sep 7-9, 1990.

e Estimated



As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the USGS collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low- or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better area coverage to these events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at flood hydrograph partial-record stations are presented in the following tables. Annual maximum discharges for crest-stage partial-record stations, discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

The data given in the following tables generally comprises a description of the station and a table showing time, gage height, and discharge at selected times for major peaks that occurred during the year.

The description of the station gives the location, drainage area, period of record, type and history of gages, extremes of discharge, and general remarks. The explanation of data presented is identical to that for gaging stations.

#### Flood hydrograph partial-record stations

##### MOBILE RIVER BASIN

##### 02437000 TOMBIGBEE RIVER NEAR AMORY, MS

LOCATION.--Lat 34°59'07", long 88°33'06", in NW1/4 NE1/4 sec.3, T.12 S., R.7 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160101, near right bank on downstream side of bridge on U.S. Highway 278, 0.3 mi downstream from Town Creek, 3.5 mi west of Amory, and at mile 378.9.

DRAINAGE AREA.--1,928 mi<sup>2</sup>, prior to construction of Tennessee-Tombigbee Waterway.

PERIOD OF RECORD.--October 1937 to September 1985. October 1985 to September 1987 (high-water records only). 1988-Current year (flood hydrograph only). Monthly discharge only for October and November 1937, published in WSP 1304. Daily mean gage heights published October 1971 to September 1986.

REVISED RECORDS.--WSP 1504: 1948. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 178.34 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to Oct. 10, 1939, nonrecording gage at site 1,500 ft upstream at same datum. Oct. 10, 1939 to Oct. 16, 1948, nonrecording gage at present site and datum. Water-stage recorder for station at Aberdeen (station 02437500), 20 mi downstream, was used as an auxiliary gage for this station 1950-58.

REMARKS.--Records good. Some regulation by Tennessee-Tombigbee Waterway. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--47 years, (water year 1937-84) 3,156 ft<sup>3</sup>/s, 22.22 in/yr, prior to construction of Tennessee-Tombigbee Waterway.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 162,000 ft<sup>3</sup>/s, Mar. 17, 1973, gage height, 34.65 ft, minimum, 45 ft<sup>3</sup>/s, Sept. 20, 1954, minimum gage height, 0.77 ft, Sept. 1, 1943.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1892 reached a stage of 33.5 ft and the flood of December 1926 reached a stage of 31.5 ft, from U. S. Army Corps of Engineers profiles.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,900 ft<sup>3</sup>/s, Apr. 4, gage height, 25.80 ft.

## Flood hydrograph partial-record stations

## MOBILE RIVER BASIN--Continued

## 02437000 TOMBIGBEE RIVER NEAR AMORY, MS--Continued

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 2000 WATER YEAR

| Date  | Time | Gage<br>Height | Discharge | Date  | Time | Gage<br>Height | Discharge | Date  | Time | Gage<br>Height | Discharge |
|-------|------|----------------|-----------|-------|------|----------------|-----------|-------|------|----------------|-----------|
| 03-18 | 1100 | 12.04          | 2,540     | 04-02 | 0400 | 17.32          | 11,100    | 04-13 | 0600 | 14.20          | 2,650     |
| 03-18 | 2200 | 12.26          | 2,780     | 04-02 | 0800 | 20.41          | 18,600    | 04-13 | 0800 | 13.66          | 2,870     |
| 03-19 | 0200 | 12.25          | 2,770     | 04-02 | 1200 | 22.27          | 24,500    | 04-13 | 1000 | 13.41          | 3,170     |
| 03-19 | 0400 | 12.27          | 2,790     | 04-02 | 1600 | 23.57          | 29,400    | 04-13 | 1100 | 13.39          | 3,570     |
| 03-19 | 0600 | 12.27          | 2,790     | 04-02 | 2000 | 24.42          | 33,100    | 04-13 | 1200 | 13.46          | 5,550     |
| 03-19 | 0800 | 12.95          | 3,610     | 04-02 | 2400 | 24.93          | 35,600    | 04-13 | 1300 | 13.83          | 7,840     |
| 03-19 | 1000 | 16.30          | 8,960     | 04-03 | 0200 | 25.00          | 36,000    | 04-13 | 1400 | 17.28          | 9,220     |
| 03-19 | 1200 | 17.72          | 11,900    | 04-03 | 0400 | 25.09          | 36,400    | 04-13 | 1500 | 18.39          | 10,100    |
| 03-19 | 1300 | 18.09          | 12,800    | 04-03 | 0600 | 25.11          | 36,500    | 04-13 | 1600 | 19.18          | 10,700    |
| 03-19 | 1400 | 18.32          | 13,300    | 04-03 | 0800 | 25.03          | 36,100    | 04-13 | 1700 | 19.80          | 11,200    |
| 03-19 | 1500 | 18.52          | 13,800    | 04-03 | 1000 | 25.02          | 36,000    | 04-13 | 1800 | 20.32          | 11,500    |
| 03-19 | 1600 | 18.67          | 14,200    | 04-03 | 1200 | 24.92          | 35,600    | 04-13 | 1900 | 20.74          | 11,700    |
| 03-19 | 1700 | 18.75          | 14,400    | 04-03 | 1400 | 24.89          | 35,400    | 04-13 | 2100 | 21.05          | 11,500    |
| 03-19 | 1800 | 18.76          | 14,400    | 04-03 | 1600 | 25.01          | 36,000    | 04-13 | 2200 | 21.16          | 11,200    |
| 03-19 | 1900 | 18.77          | 14,400    | 04-03 | 1700 | 25.11          | 36,500    | 04-13 | 2400 | 21.22          | 10,900    |
| 03-19 | 2200 | 18.69          | 14,200    | 04-03 | 1800 | 25.19          | 36,900    | 04-14 | 0200 | 21.26          | 10,300    |
| 03-19 | 2400 | 18.57          | 13,900    | 04-03 | 1900 | 25.31          | 37,400    | 04-14 | 0400 | 21.29          | 9,620     |
| 03-20 | 0400 | 18.19          | 13,000    | 04-03 | 2000 | 25.42          | 38,000    | 04-14 | 0600 | 21.29          | 8,910     |
| 03-20 | 0800 | 17.69          | 11,900    | 04-03 | 2100 | 25.52          | 38,500    | 04-14 | 0800 | 21.24          | 8,280     |
| 03-20 | 1200 | 16.92          | 10,200    | 04-03 | 2200 | 25.63          | 39,000    | 04-14 | 1000 | 21.23          | 7,680     |
| 03-20 | 1600 | 16.14          | 8,660     | 04-03 | 2300 | 25.71          | 39,400    | 04-14 | 1200 | 21.19          | 7,150     |
| 03-20 | 2000 | 15.56          | 7,590     | 04-03 | 2400 | 25.74          | 39,600    | 04-14 | 1400 | 21.12          | 6,620     |
| 03-20 | 2400 | 15.16          | 6,890     | 04-04 | 0100 | 25.77          | 39,700    | 04-14 | 1600 | 20.96          | 6,110     |
| 03-21 | 0400 | 14.80          | 6,290     | 04-04 | 0200 | 25.80          | 39,900    | 04-14 | 1800 | 20.75          | 5,630     |
| 03-21 | 0800 | 14.43          | 5,700     | 04-04 | 0400 | 25.79          | 39,800    | 04-14 | 2000 | 20.55          | 5,220     |
| 03-21 | 1200 | 14.21          | 5,370     | 04-04 | 0600 | 25.75          | 39,600    | 04-14 | 2200 | 20.27          | 4,920     |
| 03-21 | 1600 | 14.08          | 5,180     | 04-04 | 0800 | 25.61          | 38,900    | 04-14 | 2400 | 19.57          | 4,790     |
| 03-21 | 2000 | 14.06          | 5,150     | 04-04 | 1000 | 25.42          | 37,900    | 04-15 | 0400 | 18.99          | 5,100     |
| 03-21 | 2400 | 14.11          | 5,220     | 04-04 | 1200 | 25.19          | 36,800    | 04-15 | 0800 | 18.57          | 5,270     |
| 03-22 | 0800 | 14.24          | 5,420     | 04-04 | 1400 | 24.92          | 35,400    | 04-15 | 1200 | 18.26          | 5,240     |
| 03-22 | 1600 | 13.91          | 4,930     | 04-04 | 1600 | 24.72          | 34,400    | 04-15 | 1600 | 18.29          | 4,900     |
| 03-22 | 2400 | 13.75          | 4,700     | 04-04 | 1800 | 24.46          | 33,100    | 04-15 | 2000 | 18.73          | 4,820     |
| 03-23 | 0800 | 13.33          | 4,120     | 04-04 | 2000 | 24.22          | 32,000    | 04-15 | 2400 | 18.70          | 5,190     |
| 03-23 | 1600 | 13.01          | 3,690     | 04-04 | 2200 | 23.98          | 30,900    | 04-16 | 0600 | 17.83          | 5,460     |
| 03-23 | 2400 | 12.95          | 3,610     | 04-04 | 2400 | 23.73          | 29,900    | 04-16 | 1200 | 14.02          | 5,090     |
| 03-24 | 1200 | 12.92          | 3,570     | 04-05 | 0400 | 23.22          | 27,800    | 04-16 | 1800 | 13.89          | 4,900     |
| 03-24 | 2400 | 12.19          | 2,710     | 04-05 | 0800 | 22.74          | 26,000    | 04-16 | 2400 | 13.75          | 4,700     |
| 03-25 | 1200 | 12.10          | 2,610     | 04-05 | 1200 | 22.36          | 24,600    | 04-17 | 0600 | 13.59          | 4,480     |
|       |      |                |           | 04-05 | 1600 | 22.00          | 23,300    | 04-17 | 1200 | 13.38          | 4,190     |
|       |      |                |           | 04-05 | 2000 | 21.66          | 22,100    | 04-17 | 1800 | 12.91          | 3,560     |
|       |      |                |           | 04-05 | 2400 | 21.29          | 20,800    | 04-17 | 2400 | 12.73          | 3,340     |
|       |      |                |           | 04-06 | 0600 | 20.75          | 19,200    | 04-18 | 1200 | 12.59          | 3,170     |
|       |      |                |           | 04-06 | 1200 | 20.01          | 17,200    | 04-18 | 2400 | 12.69          | 3,290     |
|       |      |                |           | 04-06 | 1800 | 19.28          | 15,300    | 04-19 | 1200 | 12.28          | 2,810     |
|       |      |                |           | 04-06 | 2400 | 18.58          | 13,600    | 04-19 | 2400 | 12.03          | 2,530     |
|       |      |                |           | 04-07 | 0600 | 18.05          | 12,300    | 04-20 | 1200 | 12.07          | 2,570     |
|       |      |                |           | 04-07 | 1200 | 17.31          | 10,600    | 04-20 | 2400 | 12.04          | 2,540     |
|       |      |                |           | 04-07 | 1800 | 16.59          | 9,140     |       |      |                |           |
|       |      |                |           | 04-07 | 2400 | 16.28          | 8,520     |       |      |                |           |
|       |      |                |           | 04-08 | 1200 | 17.08          | 10,000    |       |      |                |           |
|       |      |                |           | 04-08 | 2400 | 15.72          | 7,390     |       |      |                |           |
|       |      |                |           | 04-09 | 1200 | 14.60          | 5,510     |       |      |                |           |
|       |      |                |           | 04-09 | 2400 | 13.99          | 4,590     |       |      |                |           |
|       |      |                |           | 04-10 | 1200 | 13.86          | 4,370     |       |      |                |           |
|       |      |                |           | 04-10 | 2400 | 13.08          | 3,300     |       |      |                |           |
|       |      |                |           | 04-11 | 1200 | 12.86          | 3,000     |       |      |                |           |
|       |      |                |           | 04-11 | 2400 | 12.89          | 3,010     |       |      |                |           |
|       |      |                |           | 04-12 | 1200 | 12.63          | 2,680     |       |      |                |           |

## Flood hydrograph partial-record stations

## MOBILE RIVER BASIN--Continued

02441000 TIBBEE CREEK NEAR TIBBEE, MS

LOCATION.--Lat 33°32'16", long 88°38'00", in NW1/4 NW1/4 sec. 4, T.18 N., R.16 E., Choctaw Meridian, Clay County, Hydrologic Unit 03160104, on right bank 10 ft downstream from bridge on old State Highway 25, 560 ft upstream from Illinois Central and Gulf Railroad bridge, 0.7 mi north of Tibbee, 4.5 mi upstream from Magee Creek, 5.0 mi south of West Point, 9.8 mi upstream from Catalpa Creek, and 17.7 mi upstream from mouth.

DRAINAGE AREA.--926 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1928 to September 1930, October 1939 to January 1981, February 1981 to September 1987 (high-water records only). October 1987 to current year (flood hydrograph only). Monthly discharge only for September 1930 and October 1939, published in WSP 1034. Prior to October 1950, published as Tibbee River near Tibbee.

REVISED RECORDS.--WSP 1504: 1929-30. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 154.07 ft above sea level (levels by U. S. Army Corps of Engineers). Aug. 7, 1928 to Aug. 31, 1930, nonrecording gage at site 560 ft downstream at present datum. Nov. 5 to Dec. 6, 1939, nonrecording gage at present site and datum.

REMARKS.--Records fair. U.S. Army Corps of Engineers radio telemeter at station.

AVERAGE DISCHARGE.--43 years (water years 1929-30, 1940-80), 1,343 ft<sup>3</sup>/s, 19.70 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 81,600 ft<sup>3</sup>/s, Mar. 17, 1973, gage height, 32.26 ft, no flow at times many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1926 reached a stage of 31.5 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 40,200 ft<sup>3</sup>/s, Apr. 4, gage height 28.34 ft.

## GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 2000 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 03-20 | 0500 | 11.24       | 1,490     | 04-02 | 0500 | 9.54        | 730       | 04-13 | 0800 | 9.77        | 854       |
| 03-20 | 1000 | 12.05       | 1,790     | 04-02 | 1000 | 13.20       | 2,260     | 04-13 | 2000 | 13.14       | 2,230     |
| 03-20 | 1500 | 12.59       | 2,000     | 04-02 | 1500 | 16.07       | 3,730     | 04-14 | 0500 | 13.57       | 2,430     |
| 03-20 | 2000 | 13.00       | 2,170     | 04-02 | 2000 | 17.45       | 4,590     | 04-14 | 1500 | 14.00       | 2,630     |
| 03-20 | 2400 | 13.29       | 2,300     | 04-02 | 2400 | 19.18       | 5,820     | 04-14 | 2400 | 14.33       | 2,790     |
| 03-21 | 0500 | 13.61       | 2,440     | 04-03 | 0500 | 20.93       | 7,220     | 04-15 | 0500 | 14.53       | 2,890     |
| 03-21 | 1000 | 13.97       | 2,610     | 04-03 | 1000 | 22.69       | 9,830     | 04-15 | 1000 | 14.80       | 3,030     |
| 03-21 | 1500 | 14.94       | 3,100     | 04-03 | 1500 | 24.60       | 16,800    | 04-15 | 1500 | 15.07       | 3,170     |
| 03-21 | 2000 | 15.60       | 3,460     | 04-03 | 2000 | 26.11       | 24,600    | 04-15 | 2000 | 15.30       | 3,290     |
| 03-21 | 2400 | 16.09       | 3,740     | 04-03 | 2400 | 26.77       | 28,700    | 04-15 | 2300 | 15.51       | 3,410     |
| 03-22 | 0500 | 16.55       | 4,020     | 04-04 | 0500 | 27.46       | 33,400    | 04-16 | 0300 | 15.72       | 3,530     |
| 03-22 | 1000 | 16.89       | 4,230     | 04-04 | 1000 | 27.97       | 37,300    | 04-16 | 0600 | 15.82       | 3,580     |
| 03-22 | 1300 | 17.01       | 4,300     | 04-04 | 1500 | 28.29       | 39,800    | 04-16 | 0700 | 15.83       | 3,590     |
| 03-22 | 1400 | 17.05       | 4,330     | 04-04 | 1600 | 28.31       | 39,900    | 04-16 | 0800 | 15.84       | 3,600     |
| 03-22 | 1500 | 17.08       | 4,350     | 04-04 | 1700 | 28.34       | 40,200    | 04-16 | 0900 | 15.87       | 3,610     |
| 03-22 | 1600 | 17.09       | 4,360     | 04-04 | 1800 | 28.33       | 40,100    | 04-16 | 1000 | 15.84       | 3,600     |
| 03-22 | 1700 | 17.10       | 4,360     | 04-04 | 1900 | 28.33       | 40,100    | 04-16 | 1100 | 15.84       | 3,600     |
| 03-22 | 1800 | 17.09       | 4,360     | 04-04 | 2000 | 28.29       | 39,800    | 04-16 | 1200 | 15.81       | 3,580     |
| 03-22 | 1900 | 17.07       | 4,340     | 04-04 | 2100 | 28.30       | 39,900    | 04-16 | 1300 | 15.77       | 3,560     |
| 03-22 | 2000 | 17.07       | 4,340     | 04-04 | 2200 | 28.27       | 39,600    | 04-16 | 1400 | 15.73       | 3,530     |
| 03-22 | 2100 | 17.05       | 4,330     | 04-05 | 0500 | 27.88       | 36,600    | 04-16 | 1800 | 15.45       | 3,380     |
| 03-22 | 2200 | 17.03       | 4,320     | 04-05 | 1000 | 27.45       | 33,400    | 04-16 | 2100 | 15.14       | 3,210     |
| 03-22 | 2300 | 16.98       | 4,290     | 04-05 | 1500 | 26.95       | 29,900    | 04-17 | 0100 | 14.59       | 2,920     |
| 03-22 | 2400 | 16.95       | 4,270     | 04-05 | 2000 | 26.42       | 26,500    | 04-17 | 1000 | 13.09       | 2,210     |
| 03-23 | 0500 | 16.53       | 4,000     | 04-05 | 2400 | 26.00       | 24,000    | 04-17 | 1500 | 11.59       | 1,620     |
| 03-23 | 1000 | 15.88       | 3,620     | 04-06 | 0500 | 25.49       | 21,200    | 04-17 | 2000 | 10.44       | 1,160     |
| 03-23 | 1500 | 14.96       | 3,110     | 04-06 | 1000 | 24.96       | 18,500    | 04-17 | 2400 | 9.96        | 941       |
| 03-23 | 2000 | 14.50       | 2,870     | 04-06 | 1500 | 24.44       | 16,100    | 04-18 | 1000 | 9.59        | 759       |
| 03-23 | 2400 | 14.10       | 2,680     | 04-06 | 2000 | 23.91       | 13,900    | 04-18 | 2000 | 9.50        | 708       |
| 03-24 | 1200 | 12.17       | 1,830     | 04-06 | 2400 | 23.49       | 12,300    | 04-19 | 1000 | 9.27        | 568       |
| 03-24 | 1600 | 10.24       | 1,070     | 04-07 | 0500 | 22.97       | 10,500    |       |      |             |           |
|       |      |             |           | 04-07 | 1000 | 22.32       | 8,980     |       |      |             |           |
|       |      |             |           | 04-07 | 1500 | 21.55       | 7,760     |       |      |             |           |
|       |      |             |           | 04-07 | 2000 | 20.64       | 6,980     |       |      |             |           |
|       |      |             |           | 04-07 | 2400 | 19.80       | 6,300     |       |      |             |           |
|       |      |             |           | 04-08 | 0500 | 18.89       | 5,600     |       |      |             |           |
|       |      |             |           | 04-08 | 1000 | 17.95       | 4,930     |       |      |             |           |
|       |      |             |           | 04-08 | 1500 | 16.97       | 4,280     |       |      |             |           |
|       |      |             |           | 04-08 | 2000 | 15.97       | 3,670     |       |      |             |           |
|       |      |             |           | 04-08 | 2400 | 15.20       | 3,240     |       |      |             |           |

## Flood hydrograph partial-record stations

## PEARL RIVER BASIN

02484650 PEARL RIVER AT RATLIFF'S FERRY NEAR RATLIFF, MS

LOCATION.--Lat 32°35'38", long 89°50'25", in SW1/4 NE1/4 sec.25, T.9 N., R.4 E., Choctaw Meridian, Madison County, Hydrologic Unit 03180002, near right bank, 28.5 miles upstream of the Ross Barnett Dam.

DRAINAGE AREA.--2,638 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1998 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is sea level (U.S. Geological Survey benchmark).

REMARKS.--Records fair. Regulation by the Ross Barnett Reservoir. Stages above 303.0 ft contain floodplain flow that is unmeasurable.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 14, 1979, gage height, 313.1 ft (from floodmark).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,300 ft<sup>3</sup>/s, Apr. 7, 2000, gage height 303.03 ft, Apr. 8.

GAGE-HEIGHT, IN FEET, AND DISCHARGE IN CUBIC FEET PER SECOND, AT INDICATED TIME, 2000 WATER YEAR

| Date  | Time | Gage<br>Height | Discharge |
|-------|------|----------------|-----------|
| 04-01 | 1200 | 296.50         | 2,900     |
| 04-01 | 2400 | 296.54         | 3,190     |
| 04-02 | 1200 | 296.52         | 3,190     |
| 04-02 | 2400 | 296.84         | 3,830     |
| 04-03 | 0800 | 297.33         | 6,750     |
| 04-03 | 1600 | 297.87         | 9,860     |
| 04-03 | 2400 | 298.47         | 11,400    |
| 04-04 | 0800 | 299.06         | 13,600    |
| 04-04 | 1600 | 299.71         | 15,800    |
| 04-04 | 2400 | 300.26         | 18,400    |
| 04-05 | 0400 | 300.69         | 19,100    |
| 04-05 | 0800 | 301.01         | 20,600    |
| 04-05 | 1200 | 301.21         | 19,700    |
| 04-05 | 1600 | 301.45         | 22,700    |
| 04-05 | 2000 | 301.65         | 25,100    |
| 04-05 | 2400 | 301.89         | 22,700    |
| 04-06 | 0400 | 302.14         | 23,300    |
| 04-06 | 0800 | 302.23         | 24,900    |
| 04-06 | 1600 | 302.50         | 24,600    |
| 04-06 | 2000 | 302.56         | 24,500    |
| 04-06 | 2400 | 302.64         | 24,300    |
| 04-07 | 0400 | 302.78         | 26,200    |
| 04-07 | 0500 | 302.81         | 29,300    |
| 04-07 | 0600 | 302.83         | 28,100    |
| 04-07 | 0800 | 302.81         | 25,000    |
| 04-07 | 1200 | 302.90         | 26,600    |
| 04-07 | 1600 | 302.99         | 22,800    |
| 04-07 | 2000 | 303.02         | 27,500    |
| 04-08 | 0200 | 302.99         | 24,900    |
| 04-08 | 0400 | 303.00         | 24,500    |
| 04-08 | 0600 | 303.03         | 25,500    |
| 04-08 | 0800 | 302.96         | 25,700    |
| 04-08 | 1000 | 302.96         | 25,900    |
| 04-08 | 1200 | 302.97         | 24,500    |
| 04-08 | 1400 | 302.90         | 27,200    |
| 04-08 | 1600 | 302.92         | 24,400    |
| 04-08 | 1800 | 302.89         | 24,500    |
| 04-08 | 2000 | 302.88         | 26,200    |
| 04-08 | 2200 | 302.84         | 25,700    |
| 04-08 | 2400 | 302.85         | 24,100    |
| 04-09 | 0400 | 302.70         | 24,000    |
| 04-09 | 0800 | 302.68         | 26,500    |
| 04-09 | 1200 | 302.55         | 26,500    |
| 04-09 | 1600 | 302.46         | 24,300    |
| 04-09 | 2000 | 302.30         | 23,800    |
| 04-09 | 2400 | 302.11         | 23,300    |
| 04-10 | 0400 | 302.01         | 22,700    |
| 04-10 | 0800 | 301.87         | 23,100    |
| 04-10 | 1200 | 301.58         | 22,400    |
| 04-10 | 1600 | 301.48         | 22,800    |
| 04-10 | 2000 | 301.20         | 18,200    |
| 04-10 | 2400 | 300.93         | 18,800    |
| 04-11 | 0400 | 300.64         | 18,500    |
| 04-11 | 0800 | 300.34         | 16,900    |
| 04-11 | 1200 | 300.03         | 16,600    |
| 04-11 | 1600 | 299.69         | 16,700    |
| 04-11 | 2000 | 299.40         | 15,500    |
| 04-11 | 2400 | 299.13         | 14,900    |
| 04-12 | 0800 | 298.61         | 12,700    |
| 04-12 | 1600 | 298.20         | 10,800    |
| 04-12 | 2400 | 297.88         | 10,200    |
| 04-13 | 0800 | 297.79         | 9,160     |
| 04-13 | 1600 | 297.65         | 8,960     |
| 04-13 | 2400 | 297.54         | 8,940     |
| 04-14 | 0800 | 297.43         | 9,100     |
| 04-14 | 1600 | 297.31         | 7,590     |
| 04-14 | 2400 | 297.18         | 7,660     |
| 04-15 | 1200 | 296.96         | 6,690     |
| 04-15 | 2400 | 296.78         | 6,160     |
| 04-16 | 1200 | 296.70         | 5,350     |
| 04-16 | 2400 | 296.64         | 5,050     |

## Flood hydrograph partial-record stations

## PEARL RIVER BASIN--Continued

02485800 EUBANKS CREEK AT JACKSON, MS

LOCATION.--Lat 32°20'22", long 90°09'51", in NW1/4 NE1/4 sec.26, T.6 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, near left bank at downstream side of Wood Dale Drive bridge in Jackson, about 1,600 ft upstream from Interstate 55 and 1.3 mi upstream from the mouth.

DRAINAGE AREA.--3.91 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1953 to current year (annual peaks only prior to 1988 water year).

GAGE.--Water-stage recorder. Datum of gage is 262.02 ft above sea level, supplementary adjustment of 1941. A continuous recorder was previously located 1,600 ft downstream from the present site at datum 0.74 ft lower than the present and was in operation from July 1954 to August 1959. A crest-stage gage was also in operation from November 1953 through February 1959, located 1,700 ft downstream from the present site.

REMARKS.--Records fair. Occasional backwater from Pearl River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft<sup>3</sup>/s, Apr. 29, 1953, gage height, 12.20 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 928 ft<sup>3</sup>/s, Apr. 2, gage height 8.49 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 2000 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 03-10 | 1815 | 6.90        | 525       | 04-02 | 1915 | 6.69        | 480       | 06-04 | 1600 | 5.75        | 300       |
| 03-10 | 1830 | 7.65        | 702       | 04-02 | 1930 | 7.99        | 790       | 06-04 | 1615 | 7.18        | 588       |
| 03-10 | 1845 | 7.23        | 600       | 04-02 | 1945 | 8.47        | 922       | 06-04 | 1630 | 7.95        | 779       |
| 03-10 | 1900 | 6.74        | 490       | 04-02 | 2000 | 8.49        | 928       | 06-04 | 1645 | 7.89        | 764       |
| 03-10 | 1915 | 6.17        | 376       | 04-02 | 2015 | 8.17        | 838       | 06-04 | 1700 | 7.69        | 712       |
| 03-10 | 1930 | 5.68        | 288       | 04-02 | 2045 | 7.26        | 607       | 06-04 | 1715 | 6.98        | 543       |
| 03-10 | 1945 | 5.40        | 243       | 04-02 | 2115 | 6.40        | 420       | 06-04 | 1730 | 6.01        | 346       |
| 03-10 | 2000 | 5.35        | 235       | 04-02 | 2145 | 5.95        | 335       | 06-04 | 1745 | 5.29        | 226       |
| 03-10 | 2015 | 5.45        | 251       | 04-02 | 2200 | 5.93        | 332       | 06-04 | 1800 | 4.77        | 155       |
| 03-10 | 2030 | 5.47        | 254       | 04-02 | 2215 | 5.88        | 323       | 06-04 | 1815 | 4.42        | 114       |
| 03-10 | 2045 | 5.43        | 248       | 04-02 | 2230 | 5.82        | 312       | 06-04 | 1830 | 4.16        | 87        |
| 03-10 | 2100 | 5.31        | 229       | 04-02 | 2300 | 5.54        | 265       |       |      |             |           |
| 03-10 | 2115 | 5.11        | 200       | 04-02 | 2330 | 5.23        | 218       |       |      |             |           |
| 03-10 | 2130 | 4.90        | 171       | 04-02 | 2400 | 4.83        | 162       |       |      |             |           |
| 03-10 | 2145 | 4.68        | 144       |       |      |             |           |       |      |             |           |
| 03-10 | 2215 | 4.27        | 98        | 04-03 | 0015 | 4.65        | 140       |       |      |             |           |
| 03-10 | 2230 | 4.11        | 82        | 04-03 | 0030 | 4.52        | 125       |       |      |             |           |
|       |      |             |           | 04-03 | 0045 | 4.45        | 117       |       |      |             |           |
|       |      |             |           | 04-03 | 0115 | 4.40        | 111       |       |      |             |           |
|       |      |             |           | 04-03 | 0145 | 5.59        | 273       |       |      |             |           |
|       |      |             |           | 04-03 | 0200 | 6.36        | 412       |       |      |             |           |
|       |      |             |           | 04-03 | 0215 | 6.39        | 418       |       |      |             |           |
|       |      |             |           | 04-03 | 0245 | 5.90        | 326       |       |      |             |           |
|       |      |             |           | 04-03 | 0300 | 6.34        | 408       |       |      |             |           |
|       |      |             |           | 04-03 | 0315 | 7.34        | 626       |       |      |             |           |
|       |      |             |           | 04-03 | 0330 | 7.61        | 692       |       |      |             |           |
|       |      |             |           | 04-03 | 0400 | 7.89        | 764       |       |      |             |           |
|       |      |             |           | 04-03 | 0415 | 7.81        | 743       |       |      |             |           |
|       |      |             |           | 04-03 | 0430 | 7.40        | 640       |       |      |             |           |
|       |      |             |           | 04-03 | 0500 | 6.26        | 393       |       |      |             |           |
|       |      |             |           | 04-03 | 0530 | 5.40        | 243       |       |      |             |           |
|       |      |             |           | 04-03 | 0600 | 4.85        | 165       |       |      |             |           |
|       |      |             |           | 04-03 | 0630 | 4.45        | 117       |       |      |             |           |
|       |      |             |           | 04-03 | 0700 | 4.15        | 86        |       |      |             |           |

## Flood hydrograph partial-record stations

## PEARL RIVER BASIN--Continued

02485950 TOWN CREEK AT JACKSON, MS

LOCATION.--Lat 32°18'15", long 90°11'33", in NW1/4 SW1/4sec.3, T.5 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, at bridge on Gallatin street in Jackson, 300 ft upstream of Illinois Central Railroad and 2.5 mi upstream from mouth.

DRAINAGE AREA.--11.4 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1954 to current year (Annual peaks only prior to 1989 water year).

GAGE.--Water-stage recorder. Datum of gage is 260.72 ft above sea level. Prior to Mar. 2, 1988, at datum 2.00 ft higher.

REMARKS.--Records fair. Occasional backwater from Pearl River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,480 ft<sup>3</sup>/s, Apr. 14, 1983, maximum gage height, 13.00 ft present datum, Apr. 4, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1921, maximum discharge, 6,000 ft<sup>3</sup>/s, gage height, 19.00 ft (but may have been at different datum).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,380 ft<sup>3</sup>/s, Apr. 2, gage height, 8.67 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 2000 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 03-10 | 1830 | 4.20        | 659       | 04-02 | 1915 | 4.43        | 733       | 05-03 | 1645 | 4.04        | 611       |
| 03-10 | 1845 | 5.02        | 921       | 04-02 | 1930 | 6.41        | 1,430     | 05-03 | 1700 | 6.04        | 1,280     |
| 03-10 | 1900 | 5.53        | 1,100     | 04-02 | 1945 | 7.65        | 1,940     | 05-03 | 1715 | 7.07        | 1,690     |
| 03-10 | 1915 | 5.81        | 1,200     | 04-02 | 2000 | 8.30        | 2,220     | 05-03 | 1730 | 7.18        | 1,730     |
| 03-10 | 1930 | 5.77        | 1,180     | 04-02 | 2015 | 8.67        | 2,380     | 05-03 | 1745 | 6.97        | 1,650     |
| 03-10 | 1945 | 5.60        | 1,120     | 04-02 | 2030 | 8.64        | 2,370     | 05-03 | 1800 | 6.64        | 1,510     |
| 03-10 | 2000 | 5.49        | 1,080     | 04-02 | 2045 | 8.43        | 2,280     | 05-03 | 1815 | 6.08        | 1,300     |
| 03-10 | 2015 | 5.37        | 1,040     | 04-02 | 2100 | 8.07        | 2,120     | 05-03 | 1830 | 5.61        | 1,120     |
| 03-10 | 2030 | 5.25        | 1,000     | 04-02 | 2115 | 7.66        | 1,940     | 05-03 | 1845 | 5.08        | 935       |
| 03-10 | 2045 | 5.09        | 945       | 04-02 | 2130 | 7.27        | 1,780     | 05-03 | 1900 | 4.63        | 783       |
| 03-10 | 2100 | 5.00        | 914       | 04-02 | 2145 | 7.00        | 1,660     | 05-03 | 1915 | 4.28        | 674       |
| 03-10 | 2115 | 4.84        | 861       | 04-02 | 2200 | 6.72        | 1,550     | 05-03 | 1930 | 3.88        | 553       |
| 03-10 | 2130 | 4.62        | 790       | 04-02 | 2215 | 6.43        | 1,440     | 05-03 | 1945 | 3.56        | 464       |
| 03-10 | 2145 | 4.33        | 698       | 04-02 | 2230 | 6.24        | 1,360     | 05-03 | 2000 | 3.30        | 392       |
| 03-10 | 2200 | 4.12        | 635       | 04-02 | 2245 | 6.14        | 1,330     |       |      |             |           |
| 03-10 | 2215 | 3.88        | 564       | 04-02 | 2300 | 5.94        | 1,250     |       |      |             |           |
| 03-10 | 2230 | 3.71        | 516       | 04-02 | 2315 | 5.75        | 1,180     |       |      |             |           |
| 03-10 | 2245 | 3.54        | 469       | 04-02 | 2330 | 5.61        | 1,130     |       |      |             |           |
| 03-10 | 2300 | 3.33        | 413       | 04-02 | 2345 | 5.40        | 1,060     |       |      |             |           |
| 03-10 | 2315 | 3.13        | 362       | 04-02 | 2400 | 5.19        | 982       |       |      |             |           |
| 03-10 | 2330 | 3.04        | 340       |       |      |             |           |       |      |             |           |
|       |      |             |           | 04-03 | 0015 | 4.94        | 898       |       |      |             |           |
|       |      |             |           | 04-03 | 0030 | 4.75        | 835       |       |      |             |           |
|       |      |             |           | 04-03 | 0045 | 4.54        | 767       |       |      |             |           |
|       |      |             |           | 04-03 | 0100 | 4.43        | 733       |       |      |             |           |
|       |      |             |           | 04-03 | 0115 | 4.32        | 698       |       |      |             |           |
|       |      |             |           | 04-03 | 0130 | 4.36        | 711       |       |      |             |           |
|       |      |             |           | 04-03 | 0145 | 5.26        | 1,010     |       |      |             |           |
|       |      |             |           | 04-03 | 0200 | 5.93        | 1,250     |       |      |             |           |
|       |      |             |           | 04-03 | 0215 | 6.17        | 1,340     |       |      |             |           |
|       |      |             |           | 04-03 | 0230 | 5.99        | 1,270     |       |      |             |           |
|       |      |             |           | 04-03 | 0245 | 5.92        | 1,240     |       |      |             |           |
|       |      |             |           | 04-03 | 0300 | 6.21        | 1,350     |       |      |             |           |
|       |      |             |           | 04-03 | 0315 | 6.75        | 1,560     |       |      |             |           |
|       |      |             |           | 04-03 | 0330 | 6.94        | 1,640     |       |      |             |           |
|       |      |             |           | 04-03 | 0345 | 7.23        | 1,760     |       |      |             |           |
|       |      |             |           | 04-03 | 0400 | 7.66        | 1,940     |       |      |             |           |
|       |      |             |           | 04-03 | 0415 | 7.75        | 1,980     |       |      |             |           |
|       |      |             |           | 04-03 | 0430 | 7.71        | 1,960     |       |      |             |           |
|       |      |             |           | 04-03 | 0445 | 7.43        | 1,840     |       |      |             |           |
|       |      |             |           | 04-03 | 0500 | 7.16        | 1,730     |       |      |             |           |
|       |      |             |           | 04-03 | 0515 | 6.79        | 1,580     |       |      |             |           |
|       |      |             |           | 04-03 | 0530 | 6.42        | 1,430     |       |      |             |           |
|       |      |             |           | 04-03 | 0545 | 6.06        | 1,300     |       |      |             |           |
|       |      |             |           | 04-03 | 0600 | 5.76        | 1,180     |       |      |             |           |
|       |      |             |           | 04-03 | 0615 | 5.44        | 1,070     |       |      |             |           |
|       |      |             |           | 04-03 | 0630 | 5.22        | 993       |       |      |             |           |
|       |      |             |           | 04-03 | 0645 | 4.87        | 874       |       |      |             |           |
|       |      |             |           | 04-03 | 0700 | 4.66        | 806       |       |      |             |           |
|       |      |             |           | 04-03 | 0715 | 4.37        | 714       |       |      |             |           |
|       |      |             |           | 04-03 | 0730 | 4.17        | 653       |       |      |             |           |



## Flood hydrograph partial-record stations

## PEARL RIVER BASIN--Continued

02486100 LYNCH CREEK AT JACKSON, MS

LOCATION.--Lat 32°17'03", long 90°12'53", in SW1/4 SE1/4 sec.8, T.5 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, near left bank at the downstream side of Valley Street bridge in Jackson, 2,000 ft downstream of Highway 80, and 2.0 mi upstream from the mouth.

DRAINAGE AREA.--12.0 mi<sup>2</sup> (11.1 mi<sup>2</sup> at U.S. Highway 80, furnished by City of Jackson plus 0.9 mi<sup>2</sup> intervening area estimated from City of Jackson 2-ft contour map).

PERIOD OF RECORD.--August 1954 to current year (annual peaks only prior to 1988 water year).

GAGE.--Water-stage recorder. Datum of gage is 261.68 ft above sea level.

REMARKS.--Records fair. Occasional backwater from Pearl River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,180 ft<sup>3</sup>/s, Apr. 20, 1995, gage height, 16.30 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 29, 1953, maximum discharge, 7,500 ft<sup>3</sup>/s, gage height, 18.9 ft (from floodmark). Flood prior to 1939 reached a stage of 19.2 ft (from Mississippi Highway Department).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,830 ft<sup>3</sup>/s, Apr. 2, 2000, gage height 12.98 ft.

GAGE-HEIGHT, IN FEET, AND DISCHARGE IN CUBIC FEET PER SECOND, AT INDICATED TIME, 2000 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 03-10 | 1800 | 4.29        | 102       | 04-02 | 1845 | 4.36        | 108       | 05-03 | 1630 | 7.61        | 643       |
| 03-10 | 1815 | 4.55        | 127       | 04-02 | 1915 | 8.65        | 932       | 05-03 | 1645 | 10.00       | 1,400     |
| 03-10 | 1830 | 6.72        | 444       | 04-02 | 2000 | 12.91       | 2,790     | 05-03 | 1700 | 10.89       | 1,770     |
| 03-10 | 1845 | 7.77        | 685       | 04-02 | 2015 | 12.98       | 2,830     | 05-03 | 1715 | 10.63       | 1,650     |
| 03-10 | 1900 | 7.91        | 721       | 04-02 | 2045 | 12.59       | 2,610     | 05-03 | 1745 | 9.88        | 1,350     |
| 03-10 | 1915 | 7.74        | 678       | 04-02 | 2115 | 12.12       | 2,360     | 05-03 | 1815 | 9.14        | 1,090     |
| 03-10 | 1930 | 7.63        | 648       | 04-02 | 2200 | 11.07       | 1,850     | 05-03 | 1845 | 8.15        | 787       |
| 03-10 | 1945 | 7.82        | 698       | 04-02 | 2300 | 9.89        | 1,360     | 05-03 | 1915 | 7.20        | 546       |
| 03-10 | 2000 | 8.10        | 773       | 04-02 | 2400 | 8.90        | 1,010     | 05-03 | 1945 | 6.44        | 392       |
| 03-10 | 2015 | 8.33        | 838       |       |      |             |           | 05-03 | 2015 | 5.88        | 294       |
| 03-10 | 2030 | 8.39        | 854       | 04-03 | 0115 | 7.79        | 690       | 05-03 | 2045 | 5.44        | 230       |
| 03-10 | 2045 | 8.34        | 839       | 04-03 | 0145 | 8.96        | 1,030     | 05-03 | 2115 | 5.12        | 188       |
| 03-10 | 2100 | 8.17        | 791       | 04-03 | 0215 | 10.12       | 1,450     | 05-03 | 2145 | 4.89        | 161       |
| 03-10 | 2115 | 7.95        | 732       | 04-03 | 0245 | 9.75        | 1,310     | 05-03 | 2215 | 4.71        | 142       |
| 03-10 | 2130 | 7.73        | 675       | 04-03 | 0315 | 10.26       | 1,500     | 05-03 | 2245 | 4.56        | 127       |
| 03-10 | 2145 | 7.49        | 615       | 04-03 | 0400 | 11.83       | 2,210     | 05-03 | 2315 | 4.45        | 117       |
| 03-10 | 2200 | 7.26        | 562       | 04-03 | 0430 | 12.07       | 2,330     | 05-03 | 2345 | 4.36        | 108       |
| 03-10 | 2215 | 7.05        | 513       | 04-03 | 0445 | 12.05       | 2,320     |       |      |             |           |
| 03-10 | 2230 | 6.83        | 467       | 04-03 | 0515 | 11.81       | 2,200     |       |      |             |           |
| 03-10 | 2245 | 6.61        | 424       | 04-03 | 0600 | 10.82       | 1,740     |       |      |             |           |
| 03-10 | 2300 | 6.41        | 386       | 04-03 | 0700 | 9.04        | 1,050     |       |      |             |           |
| 03-10 | 2315 | 6.24        | 355       | 04-03 | 0815 | 7.26        | 562       |       |      |             |           |
| 03-10 | 2330 | 6.11        | 332       | 04-03 | 0830 | 8.11        | 774       |       |      |             |           |
| 03-10 | 2345 | 5.96        | 308       | 04-03 | 0900 | 11.52       | 2,060     |       |      |             |           |
| 03-10 | 2400 | 5.82        | 285       | 04-03 | 0915 | 11.94       | 2,260     |       |      |             |           |
|       |      |             |           | 04-03 | 0930 | 11.89       | 2,240     |       |      |             |           |
|       |      |             |           | 04-03 | 1000 | 11.80       | 2,190     |       |      |             |           |
|       |      |             |           | 04-03 | 1100 | 10.96       | 1,800     |       |      |             |           |
|       |      |             |           | 04-03 | 1200 | 9.55        | 1,230     |       |      |             |           |
|       |      |             |           | 04-03 | 1300 | 7.99        | 743       |       |      |             |           |
|       |      |             |           | 04-03 | 1400 | 7.12        | 529       |       |      |             |           |

## Flood hydrograph partial-record stations

## PEARL RIVER BASIN--Continued

02486350 CANY CREEK AT JACKSON, MS

LOCATION.--Lat 32°14'16", long 90°13'59", in NW1/4 NE1/4 sec.31, T.5 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, at bridge on Terry Road (Old U.S. Highway 51 south) at Jackson, and about 2.5 mi upstream from the confluence with the Pearl River.

DRAINAGE AREA.--8.38 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional discharge measurements, annual maximums, water years 1961-77. November 1993 to September 1994 (high water records only).

GAGE.--Water-stage recorder. Datum of gage is 255.00 ft above sea level. November 1960 to September 1977 crest-stage gage at same site and datum 55 ft lower.

REMARKS.--Records fair. Backwater from Pearl River: Jan. 14-15, 23-26. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,400 ft<sup>3</sup>/s, Apr. 16, 1973, gage height, 15.89 ft present datum, minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,270 ft<sup>3</sup>/s, Apr. 2, gage height 11.97 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 2000 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 04-02 | 1830 | 5.44        | 314       | 05-03 | 1615 | 3.91        | 90        | 07-09 | 1845 | 3.68        | 69        |
| 04-02 | 1845 | 5.45        | 316       | 05-03 | 1630 | 4.61        | 175       | 07-09 | 1900 | 5.05        | 243       |
| 04-02 | 1900 | 5.75        | 377       | 05-03 | 1645 | 5.68        | 362       | 07-09 | 1915 | 5.48        | 322       |
| 04-02 | 1915 | 6.25        | 491       | 05-03 | 1700 | 7.02        | 699       | 07-09 | 1930 | 6.54        | 565       |
| 04-02 | 1930 | 7.88        | 973       | 05-03 | 1715 | 7.03        | 702       | 07-09 | 1945 | 8.01        | 1,020     |
| 04-02 | 1945 | 9.54        | 1,700     | 05-03 | 1730 | 6.84        | 647       | 07-09 | 2000 | 7.90        | 979       |
| 04-02 | 2000 | 10.80       | 2,780     | 05-03 | 1745 | 6.67        | 600       | 07-09 | 2015 | 7.58        | 872       |
| 04-02 | 2015 | 11.55       | 3,680     | 05-03 | 1800 | 6.52        | 560       | 07-09 | 2030 | 7.19        | 750       |
| 04-02 | 2030 | 11.97       | 4,270     | 05-03 | 1815 | 6.35        | 516       | 07-09 | 2045 | 6.87        | 655       |
| 04-02 | 2045 | 11.91       | 4,190     | 05-03 | 1830 | 6.20        | 479       | 07-09 | 2100 | 6.65        | 594       |
| 04-02 | 2100 | 11.63       | 3,790     | 05-03 | 1845 | 6.06        | 446       | 07-09 | 2115 | 6.44        | 539       |
| 04-02 | 2115 | 11.15       | 3,180     | 05-03 | 1900 | 5.93        | 416       | 07-09 | 2130 | 6.26        | 494       |
| 04-02 | 2130 | 10.50       | 2,470     | 05-03 | 1915 | 5.82        | 392       | 07-09 | 2145 | 6.11        | 458       |
| 04-02 | 2145 | 9.81        | 1,870     | 05-03 | 1930 | 5.71        | 368       | 07-09 | 2200 | 5.92        | 414       |
| 04-02 | 2200 | 9.27        | 1,540     | 05-03 | 1945 | 5.61        | 348       | 07-09 | 2215 | 5.78        | 383       |
| 04-02 | 2215 | 8.74        | 1,290     | 05-03 | 2000 | 5.51        | 328       | 07-09 | 2230 | 5.61        | 348       |
| 04-02 | 2230 | 8.20        | 1,090     | 05-03 | 2015 | 5.45        | 316       | 07-09 | 2245 | 5.34        | 295       |
| 04-02 | 2245 | 7.96        | 1,000     | 05-03 | 2030 | 5.35        | 297       | 07-09 | 2300 | 5.05        | 243       |
| 04-02 | 2300 | 7.82        | 952       | 05-03 | 2045 | 5.21        | 271       | 07-09 | 2315 | 4.86        | 212       |
| 04-02 | 2315 | 7.67        | 902       | 05-03 | 2100 | 5.07        | 247       | 07-09 | 2330 | 4.75        | 196       |
| 04-02 | 2330 | 7.48        | 840       | 05-03 | 2115 | 4.93        | 224       | 07-09 | 2345 | 4.68        | 185       |
| 04-02 | 2345 | 7.35        | 799       | 05-03 | 2130 | 4.81        | 205       | 07-09 | 2400 | 4.61        | 175       |
| 04-02 | 2400 | 7.32        | 790       | 05-03 | 2145 | 4.68        | 185       |       |      |             |           |
|       |      |             |           | 05-03 | 2200 | 4.59        | 172       |       |      |             |           |
| 04-03 | 0015 | 7.20        | 753       | 05-03 | 2215 | 4.49        | 158       |       |      |             |           |
| 04-03 | 0030 | 7.08        | 716       | 05-03 | 2230 | 4.40        | 147       |       |      |             |           |
| 04-03 | 0045 | 6.95        | 678       | 05-03 | 2245 | 4.36        | 141       |       |      |             |           |
| 04-03 | 0100 | 6.89        | 661       |       |      |             |           |       |      |             |           |
| 04-03 | 0130 | 6.82        | 641       |       |      |             |           |       |      |             |           |
| 04-03 | 0200 | 8.03        | 1,020     |       |      |             |           |       |      |             |           |
| 04-03 | 0230 | 8.82        | 1,320     |       |      |             |           |       |      |             |           |
| 04-03 | 0300 | 8.40        | 1,160     |       |      |             |           |       |      |             |           |
| 04-03 | 0330 | 8.49        | 1,190     |       |      |             |           |       |      |             |           |
| 04-03 | 0400 | 8.77        | 1,300     |       |      |             |           |       |      |             |           |
| 04-03 | 0430 | 8.94        | 1,370     |       |      |             |           |       |      |             |           |
| 04-03 | 0500 | 8.64        | 1,250     |       |      |             |           |       |      |             |           |
| 04-03 | 0530 | 8.06        | 1,040     |       |      |             |           |       |      |             |           |
| 04-03 | 0600 | 7.44        | 827       |       |      |             |           |       |      |             |           |
| 04-03 | 0630 | 7.05        | 707       |       |      |             |           |       |      |             |           |
| 04-03 | 0700 | 6.77        | 627       |       |      |             |           |       |      |             |           |
| 04-03 | 0730 | 6.51        | 557       |       |      |             |           |       |      |             |           |
| 04-03 | 0800 | 6.37        | 521       |       |      |             |           |       |      |             |           |
| 04-03 | 0830 | 6.66        | 597       |       |      |             |           |       |      |             |           |
| 04-03 | 0900 | 8.97        | 1,390     |       |      |             |           |       |      |             |           |
| 04-03 | 1000 | 9.84        | 1,890     |       |      |             |           |       |      |             |           |
| 04-03 | 1100 | 8.22        | 1,090     |       |      |             |           |       |      |             |           |
| 04-03 | 1200 | 7.14        | 734       |       |      |             |           |       |      |             |           |

## Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

## Maximum discharge at crest-stage partial-record stations

| Station name<br>and<br>number                               | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                                  | Period<br>of<br>record                        | Water year 2000 maximum |                        |                                        | Period of record maximum |                        |                                        |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------|------------------------|----------------------------------------|--------------------------|------------------------|----------------------------------------|
|                                                             |                                                                                                                                                                                                                                                                                                                   |                                               | Date                    | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) | Date                     | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) |
| MOBILE RIVER BASIN                                          |                                                                                                                                                                                                                                                                                                                   |                                               |                         |                        |                                        |                          |                        |                                        |
| Town Creek at<br>Tupelo, MS<br>(02434000)                   | Lat 34°17'40", long 88°42'32"<br>SW1/4 SE1/4 sec. 18, T.9 S.,<br>R.6 E., Chickasaw Meridian,<br>Lee County, Hydrologic Unit<br>03160102, on U.S. Highway<br>45, 0.5 mi north of city<br>limits of Tupelo. Prior to<br>1971 at datum 0.40 ft higher.<br>Drainage area is 111 mi <sup>2</sup> .                     | 1944-46+,<br>1952-70+,<br>1971-2000           | 01-23-99<br>04-02-00    | 23.51<br>15.21         | d11,500<br>4,970                       | 03-21-55                 | 27.72                  | 23,000                                 |
| Coonewah Creek<br>at Shannon, MS<br>(02435800)              | Lat 34°08'21", long 88°43'19",<br>in SE1/4 sec. 12, T.11 S.,<br>R.5 E., Chickasaw Meridian,<br>Lee County, Hydrologic Unit<br>03160102, on U.S. Highway 45,<br>1.0 mi north of Shannon and<br>4.5 mi upstream from mouth.<br>Drainage area is 53.1 mi <sup>2</sup> .                                              | 1953-2000                                     | 04-02-00                | 13.83                  | 3,260                                  | 04-11-62                 | 19.57                  | 22,400                                 |
| Chiwapa Creek at<br>Shannon, MS<br>(02436000)               | Lat 34°06'38", long 88°43'19",<br>in NE1/4 SE1/4 sec. 24, T.11 S.,<br>R.5 E., Chickasaw Meridian,<br>Lee County, Hydrologic Unit<br>03160102, at bridge on U.S.<br>Highway 45W at Shannon, and<br>0.7 mi above Gulf, Mobile,<br>and Ohio Railroad bridge.<br>Drainage area is 145 mi <sup>2</sup> .               | 1952-67+,<br>1968-2000                        | 04-03-00                | 8.62                   | 8,080                                  | 03-21-55                 | 15.72                  | 35,500                                 |
| Mattubby Creek<br>near Aberdeen,<br>MS (02437300)           | Lat 33°52'13", long 88°35'46",<br>in SE1/4 SE1/4 sec. 7, T.14<br>S., R.7E., Chickasaw Meridian<br>Monroe County, Hydrologic<br>Unit 03160101, at bridge on<br>U.S. Highway 45, 1.5 mi above<br>Wolf River, and 4.1 mi<br>northwest of Aberdeen.<br>Drainage area is 92.2 mi <sup>2</sup> .                        | 1952-2000                                     | 04-03-00                | 88.91                  | 1,800                                  | 12-21-90                 | 95.27                  | 14,600                                 |
| Nichols Creek<br>tributary near<br>Quincy, MS<br>(02437550) | Lat 33°54'18", long 88°21'02",<br>in SE1/4 sec. 29, T.13 S.,<br>R.10 E., Huntsville Meridian,<br>Monroe County, Hydrologic<br>Unit 03160101, at culvert on<br>U.S. Highway 278, 1.0 mi<br>southeast of Quincy.<br>Drainage area is 0.54 mi <sup>2</sup> .                                                         | 1967-2000                                     | 06-19-00                | 5.95                   | 225                                    | 10-30-93                 | 9.70                   | d630                                   |
| James Creek at<br>Aberdeen, MS<br>(02437600)                | Lat 38°48'48", long 88°33'51",<br>in SW1/4 SE1/4 sec. 33, T.14<br>S., R.7 E. Chickasaw Meridian,<br>Monroe County, Hydrologic<br>Unit 03160101, at bridge on<br>State Highway 25, 0.4 mi<br>southwest of Aberdeen.<br>Prior to Oct. 1988, at datum<br>10.00 ft higher. Drainage<br>area is 28.4 mi <sup>2</sup> . | 1964-68+,<br>1969-2000                        | 04-03-00                | 24.16                  | 5,190                                  | 10-22-84                 | 15.21                  | 6,970                                  |
| Chuquatonchee<br>Creek near<br>Okolona, MS<br>(02439980)    | Lat 34°00'08", long 88°52'52",<br>in NE1/4 sec. 33, T.12 S.,<br>R.4 E., Chickasaw Meridian,<br>Chickasaw County, Hydrologic<br>Unit 03160104, at bridge<br>on State Highway 32, 7.5 mi<br>west of Okolona. Drainage area<br>is 68.6 mi <sup>2</sup> .                                                             | 1963-68,<br>1969-80,<br>1984-86,<br>1988-2000 | 04-03-00                | 8.42                   | 1,800                                  | 03-16-73                 | 16.93                  | 15,000                                 |
| Chuquatonchee<br>Creek near<br>Egypt, MS<br>(02440000)      | Lat 33°50'24", long 88°45'42",<br>on line between secs. 22<br>and 27, T.14 S., R.5 E.,<br>Chickasaw Meridian, Chickasaw<br>County, Hydrologic Unit<br>03160104, at bridge on State<br>Highway 8, 4.5 mi southwest of<br>Egypt. Drainage area is 167 mi <sup>2</sup> .                                             | 1952-73+,<br>1974-2000                        | 04-03-00                | 14.40                  | 13,100                                 | 03-16-73                 | 16.61                  | 36,300                                 |
| Houlka Creek<br>near McCondy<br>MS (02440400)               | Lat 33°47'07", long 88°15'17",<br>in SE1/4 SW1/4 sec. 11, T.15<br>S., R.4 E., Chickasaw Meridian,<br>Clay County, Hydrologic Unit<br>03160104, at bridge on State<br>Highway 47, 2.8 mi south of<br>McCondy. Drainage area<br>is 189 mi <sup>2</sup> .                                                            | 1963-68+,<br>1969-2000                        | 04-03-00                | 16.13                  | 17,500                                 | 03-16-73                 | 18.65                  | 40,000                                 |

## Crest-stage partial-record stations

## Maximum discharge at crest-stage partial-record stations

| Station name<br>and<br>number                                        | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                          | Period<br>of<br>record              | Water year 2000 maximum |                        |                                        | Period of record maximum |                        |                                        |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------|------------------------|----------------------------------------|--------------------------|------------------------|----------------------------------------|
|                                                                      |                                                                                                                                                                                                                                                                                                           |                                     | Date                    | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) | Date                     | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) |
| MOBILE RIVER BASIN--Continued                                        |                                                                                                                                                                                                                                                                                                           |                                     |                         |                        |                                        |                          |                        |                                        |
| Line Creek near<br>Maben, MS<br>(02440600)                           | Lat 33°39'17", long 89°03'40",<br>in S1/2 sec. 26 T.16 S.,<br>R.2 E., Chickasaw Meridian,<br>Webster County, Hydrologic<br>Unit 0316014, at bridge on<br>State Highway 15, 1,000 ft<br>below Gulf, Mobile, and Ohio<br>Railroad, and 7.0 mi north<br>of Maben. Drainage area is<br>4.76 mi <sup>2</sup> . | 1952-2000                           | 06-27-99<br>04-03-00    | d,b<br>21.17           | d (t)<br>3,020                         | 12-03-83                 | 28.33                  | 7,540                                  |
| Trim Cane Creek<br>near Starkville,<br>MS (02440800)                 | Lat 33°28'09", long 88°54'29",<br>in W1/2 sec. 25, T.19 N.,<br>R.13 E., Choctaw Meridian,<br>Oktibbeha County, Hydrologic<br>Unit 03160104, at bridge on<br>U.S. Highway 82, 3.0 mi above<br>Biba Wila Creek, and 6.0 mi<br>west of Starkville. Drainage<br>area is 44.9 mi <sup>2</sup> .                | 1952-2000                           | d04-21-96<br>04-02-00   | d<16.45<br>21.43       | d<1,700<br>3,480                       | 05-19-83                 | 28.10                  | 9,980                                  |
| Sand Creek trib-<br>utary, near<br>Mayhew, MS<br>(02441220)          | Lat 33°28'38", long 88°43'23",<br>on line between SW1/4 sec. 27<br>and NW1/4 sec. 34, T.19 N.,<br>R.15 E., Choctaw Meridian,<br>Oktibbeha County, Hydrologic<br>Unit 03160104, on U.S. Highway<br>82, 3.7 mi west of Hayhew.<br>Drainage area is 0.44 mi <sup>2</sup> .                                   | 1966-2000                           | 04-02-00                | 6.23                   | 217                                    | 04-27-84                 | 8.75                   | 395                                    |
| Catalpa Creek<br>at Mayhew, MS<br>(02441300)                         | Lat 33°28'53", long 88°37'43",<br>in NE1/4 SW1/4 sec. 28, T.19 N.,<br>R.15 E., Chowtaw Meridian,<br>Oktibbeha County, Hydrologic<br>Unit 03160104, at bridge on<br>U.S. Highway 82, 0.5 mi east<br>of Mayhew. Drainage area is<br>98.0 mi <sup>2</sup> .                                                  | 1963-68+,<br>1969-2000              | 04-03-00                | 16.63                  | 6,020                                  | 04-13-79                 | 21.52                  | 19,800                                 |
| Luxapallila<br>Creek at<br>Steens, MS<br>(02443000)                  | Lat 33°33'37", long 88°18'55",<br>in NE1/4 sec. 27, T.17 S.,<br>R.17 W., Huntsville Meridian,<br>Lowndes County, Hydrologic<br>Unit 03160105, on county high-<br>way 0.2 mi southeast of Steens.<br>Drainage area is 309 mi <sup>2</sup> .                                                                | 1944-47+,<br>1950-77+,<br>1978-2000 | 04-04-00                | 18.03                  | 10,400                                 | 01-06-49                 | 19.20                  | 16,000                                 |
| Flat Scooba<br>Creek tribu-<br>tary near<br>Scooba, MS<br>(02448620) | Lat 32°50'26", long 88°28'07",<br>in SE1/4 sec. 32, T.12 N.,<br>R.18 E., Choctaw Meridian,<br>Kemper County, Hydrologic<br>Unit 03160108, at culvert on<br>U.S. Highway 45, 0.8 mi north<br>of Scooba. Drainage area is<br>0.44 mi <sup>2</sup> .                                                         | 1967-2000                           | 04-03-00                | 3.56                   | 112                                    | 04-12-79                 | 8.87                   | 427                                    |
| PASCAGOULA RIVER BASIN                                               |                                                                                                                                                                                                                                                                                                           |                                     |                         |                        |                                        |                          |                        |                                        |
| Leaf River near<br>Raleigh, MS<br>(02471100)                         | Lat 32°00'43", long 89°25'57",<br>in SE1/4 SE1/4 sec. 13, T.2 N.,<br>R.8 E., Chowtaw Meridian,<br>Smith County, Hydologic<br>Unit 03170004, at bridge on<br>State Highway 18, 6.0 mi<br>east of Raleigh. Drainage<br>area is 143 mi <sup>2</sup> .                                                        | 1940-43c,<br>1957-2000              | 04-05-00                | <16.10                 | <3,200                                 | 04-13-74                 | 28.17                  | 17,000                                 |
| Leaf River at<br>Taylorsville,<br>MS (02471250)                      | Lat 31°49'40", long 89°24'30",<br>on line between secs. 16<br>and 21, T.10 N., R.14 W.,<br>St. Stephens Meridian, Smith<br>County, Hydrologic Unit<br>03170004, on State Highway<br>28, 1.0 mi east of Taylorsville.<br>Drainage area is 459 mi <sup>2</sup> .                                            | 1968-2000                           | 07-14-93<br>04-06-00    | d48.42<br><37.00       | d13,600<br>f5,000                      | 04-14-74                 | 57.44                  | 37,600                                 |
| Oakhay Creek at<br>Mize, MS<br>(02471500)                            | Lat 31°52'00", long 89°32'49",<br>in NW1/4 sec. 6, T.10 N.,<br>R.15 W., St. Stephens Meridian,<br>Smith County, Hydrologic<br>Unit 03170004, on State Highway<br>28, at Mize. Drainage area<br>is 185 mi <sup>2</sup> .                                                                                   | 1943-49+,<br>1968-2000              | 04-05-00                | <10.62                 | <1,380                                 | 04-13-74                 | 17.26                  | 28,900                                 |
| Bouie Creek near<br>Sandford, MS<br>(02472420)                       | Lat 31°28'19", long 89°31'18",<br>in NE1/4 sec. 20, T.6 N.,<br>R.15 W., St. Stephens Meridian,<br>Covington County, Hydrologic<br>Unit 03170004 at bridge on<br>State Highway 589, 5.0 mi<br>southwest of junction with<br>U.S. Highway 49. Drainage<br>area is 262 mi <sup>2</sup> .                     | 1968-2000                           | 04-05-00                | >14.82                 | <2,480                                 | 04-13-74                 | 32.22                  | a32,000                                |

## Crest-stage partial-record stations

## Maximum discharge at crest-stage partial-record stations

| Station name<br>and<br>number                                  | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                                      | Period<br>of<br>record | Water year 2000 maximum |                        | Period of record maximum |                        |                                        |        |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|------------------------|--------------------------|------------------------|----------------------------------------|--------|
|                                                                |                                                                                                                                                                                                                                                                                                                       |                        | Date                    | Gage<br>height<br>(ft) | Date                     | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) |        |
| PASCAGOULA RIVER BASIN--Continued                              |                                                                                                                                                                                                                                                                                                                       |                        |                         |                        |                          |                        |                                        |        |
| Gordon Creek at<br>Hattiesburg,<br>MS (02473047)               | Lat 31°19'41", long 89°18'05",<br>in NW1/4 NE1/4 sec. 9, T.4 N.,<br>R.13 W., St. Stephens Meridian,<br>Forrest County, Hydrologic<br>Unit 03170005, at bridge on<br>Broad Street in Hattiesburg<br>Drainage area is 8.83 mi <sup>2</sup> .                                                                            | 1969-2000              | 04-04-00                | <8.21                  | <1,900                   | 04-06-83               | 16.89                                  | 6,920  |
| Tallahattah<br>Creek near<br>Waldrup, MS<br>(02473480)         | Lat 31°51'42", long 89°05'12",<br>in NW1/4 SE1/4 sec. 3, T.10 N.,<br>R.11 W., St. Stephens<br>Meridian, Jasper County,<br>Hydrologic Unit 03170005,<br>on paved county road, 8.7<br>mi south of Waldrup.<br>Drainage area is 30.4 mi <sup>2</sup> .                                                                   | 1965-70+,<br>1971-2000 | 04-04-00                | (b)                    | (t)                      | 03-03-79               | 17.20                                  | 7,200  |
| Tallahoma Creek<br>tributary at<br>Lake Como, MS<br>(02473850) | Lat 31°57'43", long 89°12'19",<br>on line between SE1/4 sec. 31,<br>T.2 N., and NE1/4 sec. 6,<br>T.1 N., R.11 E., Choctaw<br>Meridian, Jasper County, Hydro-<br>logic Unit 03170005, at culvert<br>on State Highway 528, 0.5 mi<br>east of Lake Como. Drainage<br>area is 3.21 mi <sup>2</sup> .                      | 1966-2000              | 04-04-00                | 6.59                   | 350                      | 07-13-93               | 11.49                                  | 2,380  |
| Buck Creek near<br>Runnelstown,<br>MS (02474650)               | Lat 31°21'50", long 89°03'08",<br>in SW1/4 SE1/4 sec. 25, T.5 N.,<br>R.11 W., St. Stephens Meridian,<br>Perry County, Hydrologic Unit<br>03170005, at bridge on State<br>Highway 42, 2.5 mi above mouth<br>and 3.7 mi east of Runnelstown.<br>Drainage area is 20.8 mi <sup>2</sup> .                                 | 1951-2000              | 04-04-00                | <9.14                  | <2,340                   | 04-03-79               | 17.93                                  | 5,700  |
| Thompson Creek<br>at Richton,<br>MS (02474800)                 | Lat 31°21'22", long 88°55'28",<br>in NW1/4 sec. 32, T.5 N.,<br>R.9 W., St. Stephens Meridian,<br>Perry County, Hydrologic Unit<br>03170005, at downstream side of<br>bridge on State Highway 42,<br>0.7 mi east of Richton.<br>Drainage area is 183 mi <sup>2</sup> .                                                 | 1998-2000              | 04-06-00                | <12.14                 | (t)                      | 01-30-99               | 16.52                                  | 10,300 |
| Waterfall Branch<br>near McLain,<br>MS (02475050)              | Lat 31°07'08", long 88°45'17",<br>in SW1/4 NE1/4 SE1/4 sec. 23,<br>T.2 N., R.8 W., St. Stephens<br>Meridian, Greene County,<br>Hydrologic Unit 03170005, at<br>culvert on State Highway 57,<br>4.2 mi east of McLain.<br>Prior to Oct. 1, 1964, at<br>datum 0.72 ft lower.<br>Drainage area is 0.65 mi <sup>2</sup> . | 1955-2000              | 04-04-00                | <4.72                  | <125                     | 06-01-59               | 11.71                                  | 764    |
| Souinlovey Creek<br>near Baxter,<br>MS (02477050)              | Lat 32°13'10", long 89°09'30",<br>in NE1/4 sec. 35, T.1 N.,<br>R.11 E., Choctaw Meridian,<br>Jasper County, Hydrologic Unit<br>03170002, at culvert on State<br>Highway 15, 2.6 mi north of<br>Baxter. Drainage area is<br>1.14 mi <sup>2</sup> .                                                                     | 1965-2000              | 04-04-00                | 4.31                   | 100                      | 06-24-93               | 13.56                                  | 1,150  |
| Shubuta Creek<br>near Shubuta,<br>MS (02477330)                | Lat 31°53'07", long 88°44'21",<br>in NW1/4 sec. 35, T.1 N.,<br>R.15 E., Choctaw Meridian,<br>Clarke County, Hydrologic Unit<br>03170002, at county hightway,<br>1.5 mi northwest of Shubuta<br>and 5.0 mi above mouth.<br>Drainage are is 75.5 mi <sup>2</sup> .                                                      | 1963-2000              | 04-04-00                | 13.24                  | 1,400                    | 04-25-73               | 24.88                                  | 12,700 |
| TCHOUTACABOUFFA RIVER BASIN                                    |                                                                                                                                                                                                                                                                                                                       |                        |                         |                        |                          |                        |                                        |        |
| Tuxachanie Creek<br>near Biloxi,<br>MS (02480500)              | Lat 30°30'35", long 88°54'32",<br>in SE1/4 sec. 20, T.6 S.,<br>R.9 W., St. Stephens Meridian,<br>Harrison County, Hdrolgic<br>Unit 03170009, at bridge on<br>State Highway 15, 7.0 mi<br>north of city limits of<br>Biloxi. Drainage area is<br>92.4 mi <sup>2</sup> .                                                | 1952-71+,<br>1972-2000 | 04-14-00                | <11.52                 | <2,600                   | 09-29-98               | 26.06                                  | 20,300 |
| Tchoutacabouffa<br>River at<br>D'Iberville, MS<br>(02480599)   | Lat 30°27'35", long 88°53'53",<br>in SE1/4 sec. 5, T.7 S.,<br>R.9 W., St. Stephens Meridian,<br>Harrison County, Hydrologic Unit<br>03170009, at State Highway 67,<br>0.5 mi north of I-10, at<br>D'Iberville. Drainage area is<br>217 mi <sup>2</sup> .                                                              | 1998-2000              | 09-29-98<br>04-14-00    | 16.56<br><4.96         | 48,000<br><10,700        | 09-29-98               | 16.56                                  | 48,000 |

## Crest-stage partial-record stations

## Maximum discharge at crest-stage partial-record stations

| Station name<br>and<br>number                                         | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                                                      | Period<br>of<br>record | Water year 2000 maximum |                        |                                        | Period of record maximum |                        |                                        |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|------------------------|----------------------------------------|--------------------------|------------------------|----------------------------------------|
|                                                                       |                                                                                                                                                                                                                                                                                                                                       |                        | Date                    | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) | Date                     | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) |
| BILOXI RIVER BASIN                                                    |                                                                                                                                                                                                                                                                                                                                       |                        |                         |                        |                                        |                          |                        |                                        |
| Saucier Creek<br>near Saucier,<br>MS (02481045)                       | Lat 30°36'13", long 89°05'39",<br>in SW1/4 sec. 16, T.5 S., R.11<br>W., St. Stephens Meridian,<br>Harrison County, Hydrologic<br>Unit 03170009, at bridge on<br>county road, 3.2 mi southeast<br>of Saucier. Drainage area is<br>36.9 mi <sup>2</sup> .                                                                               | 1998-2000              | 09-29-98<br>04-14-00    | 28.90<br><15.65        | 16,000<br>(†)                          | 09-29-98                 | 28.90                  | 16,000                                 |
| Biloxi River<br>near Lyman,<br>MS (02481130)                          | Lat 30°29'17", long 89°01'59",<br>in SE1/4 sec. 25, T.6 S.,<br>R.11 W., St. Stephens Meridian,<br>Harrison County, Hydrologic<br>Unit 03170009, on downstream<br>side of right pier of bridge<br>on county highway, 1.2 mi<br>downstream from Little Biloxi<br>River, 4.6 mi east of Lyman.<br>Drainage area is 251 mi <sup>2</sup> . | 1965-2000              | 04-14-00                | <12.05                 | <2,420                                 | 05-10-95                 | 23.95                  | 36,800                                 |
| WOLF RIVER BASIN                                                      |                                                                                                                                                                                                                                                                                                                                       |                        |                         |                        |                                        |                          |                        |                                        |
| Wolf River<br>near Poplarville,<br>MS (02481400)                      | Lat 30°50'50", long 89°28'11",<br>in NW1/4 sec. 26, T.2 S.,<br>R.15 W., St. Stephens Meridian,<br>Pearl River County, Hydrologic<br>Unit 03170009, at bridge on<br>State Highway 26, 3.6 mi east<br>of Poplarville. Drainage<br>area is 72.6 mi <sup>2</sup> .                                                                        | 1952-71,<br>1998-2000  | 01-07-98<br>12-21-99    | 30.54<br><22.40        | 7,080<br><903                          | 12-10-61                 | 32.87                  | 12,800                                 |
| JOURDAN RIVER BASIN                                                   |                                                                                                                                                                                                                                                                                                                                       |                        |                         |                        |                                        |                          |                        |                                        |
| Catahoula Creek<br>near Picayune,<br>MS (02481542)                    | Lat 30°31'00", long 89°32'01",<br>in line between secs. 18<br>and 19, T.6 S., R.15 W., St.<br>Stephens Meridian, Hancock<br>County, Hydrologic Unit<br>03170009, at bridge on State<br>Highway 43, 8.8 mi east of<br>Picayune. Drainage area is<br>32.1 mi <sup>2</sup> .                                                             | 1998-2000              | 01-07-98<br>12-21-99    | 16.55<br><10.73        | (†)<br><490                            | 01-07-98                 | 16.55                  | (†)                                    |
| Hickory Creek<br>near Kiln,<br>MS (02481550)                          | Lat 30°30'22", long 89°29'26",<br>in SE1/4 sec. 21, T.6 S., R.<br>15 W., St. Stephens Meridian,<br>Hancock County, Hydrologic<br>Unit 03170009, at bridge on<br>State Highway 43, 8 mi north<br>of Kiln. Drainage area is<br>60.9 mi <sup>2</sup> .                                                                                   | 1998-2000              | 01-07-98<br>12-21-99    | 23.25<br><16.22        | 11,700<br><2,850                       | 01-07-98                 | 23.25                  | 11,700                                 |
| PEARL RIVER BASIN                                                     |                                                                                                                                                                                                                                                                                                                                       |                        |                         |                        |                                        |                          |                        |                                        |
| Lobutcha Creek at<br>Renfro, MS<br>(02482470)                         | Lat 32°51'45", long 89°26'30",<br>in SE1/4 sec. 26, T.12 N.,<br>R.8 E., Choctaw Meridian,<br>Leake County, Hydrologic Unit<br>03180001, at bridge on State<br>Highway 25, 0.5 mi east of<br>Renfro. Drainage area is<br>248 mi <sup>2</sup> .                                                                                         | 1999-2000              | 04-04-00                | 23.89                  | 14,800                                 | 04-04-00                 | 23.89                  | 14,800                                 |
| Yockanookany<br>River trib-<br>utary near<br>McCool, MS<br>(02483890) | Lat 33°10'06", long 89°25'29",<br>in SW1/4 sec. 7, T.15 N.,<br>R.9 E., Choctaw Meridian,<br>Attala County, Hydrologic Unit<br>03180001, at culvert on<br>State Highway 12, 4.0 mi<br>southwest of McCool.<br>Drainage area is 0.34 mi <sup>2</sup> .                                                                                  | 1965-2000              | 04-02-00                | 3.88                   | 123                                    | 02-20-91                 | 7.73                   | 540                                    |
| Coffee Bogue at<br>Ludlow, MS<br>(02484600)                           | Lat 32°34'24", long 89°43'48",<br>in NE1/4 sec. 1, T.8 N.,<br>R.5 E., Choctaw Meridian,<br>Scott County, Hydrologic Unit<br>03180002, at bridge on county<br>road, 1.0 mi west of Ludlow.<br>Drainage area is 77.0 mi <sup>2</sup> .                                                                                                  | 1975-2000              | 04-03-00                | 12.71                  | 2,410                                  | 07-04-89                 | 15.93                  | 9,550                                  |
| Red Cane Creek<br>tributary near<br>Pisgah, MS<br>(02484750)          | Lat 32°28'03", long 89°47'55",<br>on line between NE1/4 sec. 8<br>and NW1/4 sec. 9, Choctaw<br>Meridian, Rankin County,<br>Hydrologic Unit 03180002, at<br>circular culvert on Highway<br>43, 4.1 mi east of Pisgah.<br>Drainage area is 0.10 mi <sup>2</sup> .                                                                       | 1965-2000              | 04-03-00                | 5.10                   | 68                                     | 07-14-93                 | 7.38                   | 143                                    |
| Fannegusha Creek<br>near Sand Hill,<br>MS (02484760)                  | Lat 32°30'20", long 89°48'45",<br>in SW1/4 sec. 29, T.8 N.,<br>R.5 E., Choctaw Meridian,<br>Rankin County, Hydrologic<br>Unit 03180002, at bridge on<br>county road, 3.9 mi east of<br>Sand Hill. Drainage area<br>is 52.3 mi <sup>2</sup> .                                                                                          | 1971-2000              | 04-03-00                | 11.66                  | 3,690                                  | 04-12-80                 | 13.35                  | 9,000                                  |



## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## Crest-stage partial-record stations

## Maximum discharge at crest-stage partial-record stations

| Station name<br>and<br>number                        | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                                                        | Period<br>of<br>record             | Water year 2000 maximum          |                          | Period of record maximum |          | Date  | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------|--------------------------|--------------------------|----------|-------|------------------------|----------------------------------------|
|                                                      |                                                                                                                                                                                                                                                                                                                                         |                                    | Date                             |                          | Date                     |          |       |                        |                                        |
| PEARL RIVER BASIN--Continued                         |                                                                                                                                                                                                                                                                                                                                         |                                    |                                  |                          |                          |          |       |                        |                                        |
| Purple Creek at<br>Jackson, MS<br>(02485650)         | Lat 32°22'44", long 90°07'19",<br>in NW 1/4 sec. 8, T.6 N.,<br>R.2 E., Choctaw Meridian,<br>Hinds County, Hydrologic<br>Road bridge in Jackson and<br>1.5 mi above mouth. Drainage<br>area is 6.12 mi <sup>2</sup> .                                                                                                                    | 1952-2000                          | 04-02-00                         | 7.88                     | 722                      | 04-29-53 | 99.92 | 2,890                  |                                        |
| Three Mile Creek<br>at Jackson, MS<br>(02486115)     | Lat 32°16'22", long 90°13'00",<br>in NW1/4 SE1/4 sec. 17, T.5 N.,<br>R.1 E., Choctaw Meridian,<br>Hinds County, Hydrologic<br>Unit 03180002, at old U.S.<br>Highway 51 (Terry Road),<br>0.6 mi above Illinois Central<br>Railroad. Drainage area<br>is 1.05 mi <sup>2</sup> .                                                           | 1962-2000                          | 04-02-00                         | 6.65                     | 308                      | 08-30-74 | 31.52 | 1,720                  |                                        |
| Strong River<br>near Puckett,<br>MS (02487300)       | Lat 32°03'49", long 89°44'49",<br>in SE1/4 SE1/4 sec. 26, T.3 N.,<br>R.4 E., Choctaw Meridian,<br>Rankin County, Hydrologic<br>Unit 03180002, at State<br>Highway 18, 2.0 mi southeast<br>of Puckett. Drainage<br>area is 248 mi <sup>2</sup> .                                                                                         | 1955-2000                          | 04-04-00                         | 17.71                    | 2,740                    | 04-07-83 | 26.47 | 18,600                 |                                        |
| Dabbs Creek<br>near Johns,<br>MS (02487512)          | Lat 32°09'24", long 89°53'23",<br>NE1/4 SE1/4 sec. 28, T.4 N.,<br>R.4 E., Choctaw Meridian,<br>Rankin County, Hydrologic<br>Unit 03180002, at bridge on<br>State Highway 18, 3.5 mi<br>northwest of Johns.<br>Drainage area is 7.33 mi <sup>2</sup> .                                                                                   | 1998-2000                          | 01-21-98<br>01-30-99<br>04-03-00 | 24.88<br>25.28<br>a21.40 | d547<br>d600<br>230      | 01-30-99 | 25.28 | d600                   |                                        |
| Copiah Creek<br>near<br>Hazlehurst,<br>MS (02487900) | Lat 31°53'27", long 90°17'07",<br>in SW1/4 SE1/4 sec. 27, T.1 N.,<br>R.1 W., Choctaw Meridian,<br>Copiah County, Hydrologic<br>Unit 03180003, at bridge on<br>State Highway 28, 6.2 mi east<br>of Hazlehurst. Drainage<br>area is 47.4 mi <sup>2</sup> .                                                                                | 1948-65,<br>1966-68+,<br>1969-2000 | 04-03-00                         | <10.59                   | <3,800                   | 04-12-80 | 25.11 | 32,000                 |                                        |
| Silver Creek at<br>Silver Creek,<br>MS (2488600)     | Lat 31°36'17", long 89°59'31",<br>in NE1/4 sec. 3, T.7 N., R.<br>20 W., St Stephens Meridian,<br>Lawrence County, Hydrologic<br>Unit 03180003, at bridge on<br>U.S. Highway 84, 0.3 mi east<br>of Silver Creek. Drainage<br>area is 123 mi <sup>2</sup> .                                                                               | 1998-2000                          | 04-03-00                         | 13.05                    | 1,760                    | 01-08-98 | 15.08 | 6,650                  |                                        |
| Elmers Draw<br>near<br>Columbia,<br>MS, (02489030)   | Lat 31°12'00", long 89°57'57",<br>in SE1/4 NW1/4 sec. 26,<br>T.3 N., R.12 E., Washington<br>Meridian, Marion County,<br>Hydrologic Unit 03180004, at<br>U.S. Highway 98, 5.7 mi west<br>of Columbia. Prior to Oct. 1,<br>1964, at datum 1.12 ft higher.<br>Drainage area is 0.91 mi <sup>2</sup> .                                      | 1955-2000                          | 04-03-00                         | (b)                      | (t)                      | 04-06-83 | 16.22 | 1,620                  |                                        |
| MISSISSIPPI RIVER BASIN                              |                                                                                                                                                                                                                                                                                                                                         |                                    |                                  |                          |                          |          |       |                        |                                        |
| Wolf River<br>near<br>Springhill,<br>MS (07030370)   | Lat 34°56'48", long 89°11'39",<br>in NE1/4 sec. 4, T.2 S., R.1<br>E., Chickasaw Meridian, Benton<br>County, Hydrologic Unit 08010210,<br>at bridge on U.S. Highway 72,<br>0.8 mi east of Scenic Route 5.<br>Drainage area is 104 mi <sup>2</sup> .                                                                                      | 1999-2000                          | 03-13-99<br>02-02-00             | 11.77<br><10.08          | d4,100<br>f840           | 03-13-99 | 11.77 | d4,100                 |                                        |
| YAZOO RIVER BASIN                                    |                                                                                                                                                                                                                                                                                                                                         |                                    |                                  |                          |                          |          |       |                        |                                        |
| Hell Creek near<br>New Albany, MS<br>(07267000)      | Lat 34°31'06", long 89°02'49",<br>in SW1/4 sec. 36, T.6 S.,<br>R.2 E., Chickasaw Meridian,<br>Union County, Hydrologic<br>Unit 08030201, at bridge on<br>U.S. Highway 78, 3.0 mi north-<br>west of New Albany, and 4.5 mi<br>above mouth. Drainage area is<br>27.3 mi <sup>2</sup> .                                                    | 1939-42+,<br>1952-2000             | 04-03-00                         | <6.45                    | <2,110                   | 12-26-82 | 13.50 | 8,420                  |                                        |
| Cypress Creek<br>near Etta, MS<br>(07268500)         | Lat 34°26'32", long 89°17'15",<br>in SE1/4 sec. 27, T.7 S.,<br>R.1 W., Chickasaw Meridian,<br>Lafayette County, Hydrologic<br>Unit 08030201, at bridge on<br>State Highway 30, 4.5 mi south-<br>west of Etta, and 5.0 mi above<br>mouth. Prior to Oct. 1, 1964,<br>at datum 10.00 ft higher.<br>Drainage area is 28.5 mi <sup>2</sup> . | 1939-42+,<br>1952-2000             | 04-02-00                         | <7.70                    | <864                     | 05-19-83 | 19.94 | 11,300                 |                                        |

## Crest-stage partial-record stations

## Maximum discharge at crest-stage partial-record stations

| Station name<br>and<br>number                                    | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                                  | Period<br>of<br>record             | Water year 2000 maximum          |                           |                                        | Period of record maximum |                        |                                        |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------|---------------------------|----------------------------------------|--------------------------|------------------------|----------------------------------------|
|                                                                  |                                                                                                                                                                                                                                                                                                                   |                                    | Date                             | Gage<br>height<br>(ft)    | Dis-<br>charge<br>(ft <sup>3</sup> /s) | Date                     | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) |
| YAZOO RIVER BASIN--Continued                                     |                                                                                                                                                                                                                                                                                                                   |                                    |                                  |                           |                                        |                          |                        |                                        |
| North Tippah<br>Creek near<br>Ripley, MS<br>(07269000)           | Lat 34°44'00", long 89°01'24",<br>in SW1/4 sec. 18, T.4 S.,<br>R.3 E., Chickasaw Meridian,<br>Tippah County, Hydrologic<br>Unit 08030201, at bridge on<br>State Highway 4, 2.0 mi<br>upstream from Tippah Creek,<br>and 5.5 mi west of Ripley.<br>Drainage area is 20.0 mi <sup>2</sup> .                         | 1939-42+,<br>1952-85,<br>1988-2000 | 04-03-00                         | 6.73                      | 329                                    | 04-12-79                 | 21.60                  | (†)                                    |
| Long Creek at<br>Courtland, MS<br>(07275500)                     | Lat 34°13'42", long 89°56'12",<br>near center of sec. 9, T.10 S.,<br>R.7 W., Chickasaw Meridian,<br>Panola County, Hydrologic Unit<br>08030203, at bridge on U.S.<br>Highway 51, 1.0 mi south of<br>Courtland, 5.5 mi above mouth,<br>and 6.0 mi south of Baatesville.<br>Drainage area is 66.2 mi <sup>2</sup> . | 1940-43+,<br>1952-2000             | 05-09-89<br>02-04-90<br>04-03-00 | d18.15<br>d23.03<br>15.20 | d10,400<br>d20,000<br>6,530            | 05-28-54                 | 25.02                  | 38,300                                 |
| Cane Creek<br>at Vardaman,<br>MS (07281965)                      | Lat 33°52'31", long 89°11'27",<br>in NE1/4 SE1/4 sec. 9, T.14 N.,<br>R.1 E., Chickasaw Meridian,<br>Calhoun County, Hydrologic Unit<br>08030205, at bridge on State<br>Highway 8, 0.8 mi west of<br>Vardaman. Drainage area is<br>25.1 mi <sup>2</sup> .                                                          | 1999-2000                          | 04-02-00                         | 20.86                     | 1,500                                  | 01-23-99                 | 27.57                  | (†)                                    |
| Long Creek near<br>Cascilla, MS<br>(07285700)                    | Lat 33°51'41", long 89°59'09",<br>in SW1/4 SW1/4 NE1/4 sec. 16,<br>T.23 N., R.3 E., Choctaw<br>Meridian, Tallahatchie County,<br>Hydrologic Unit 08030205, at<br>culvert on county highway,<br>1.1 mi east of Cascilla.<br>Drainage area is 1.64 mi <sup>2</sup> .                                                | 1965-2000                          | 04-02-00                         | 9.49                      | 520                                    | 05-08-84                 | 12.70                  | 1,860                                  |
| Fannegusha Creek<br>near Tchula,<br>MS (07287350)                | Lat 33°10'04", long 90°10'10",<br>in NE1/4 NW1/4 sec. 14, T.15<br>N., R.1 E., Choctaw Meridian,<br>Holmes County, Hydrologic Unit<br>08030206, on State Highway 12,<br>east of Tchula. Drainage area<br>is 103 mi <sup>2</sup> .                                                                                  | 1953-65e,<br>1968-2000             | 04-02-00                         | 23.84                     | 15,800                                 | 04-26-70                 | 24.54                  | 23,000                                 |
| Piney Creek<br>near Benton,<br>MS (07287474)                     | Lat 32°50'57", long 90°14'10",<br>in NW1/4 sec. 31, T.12 N., R.1<br>E., Choctaw Meridian, Yazoo County,<br>Hydrologic Unit 08030206, at<br>bridge on State Highway 433, 2.1<br>mi northeast of Benton. Drainage<br>area is 12.9 mi <sup>2</sup> .                                                                 | 1999-2000                          | 04-03-00                         | 11.30                     | 4,440                                  | 04-03-00                 | 11.30                  | 4,440                                  |
| BIG BLACK RIVER BASIN                                            |                                                                                                                                                                                                                                                                                                                   |                                    |                                  |                           |                                        |                          |                        |                                        |
| Hays Creek<br>tributary<br>No 1 near<br>Vaiden, MS<br>(07289265) | Lat 33°23'16", long 89°45'40",<br>in SE1/4 SE1/4 SW1/4 sec. 27,<br>T.18 N., R.5 E., Choctaw<br>Meridian, Carroll County,<br>Hydrologic Unit 08060201,<br>at bridge on U.S. Highway 51,<br>3.9 mi north of Vaiden.<br>Drainage area is 14.0 mi <sup>2</sup> .                                                      | 1960-74,<br>1976-2000              | 04-02-00                         | (b)                       | (†)                                    | 12-22-90                 | 26.33                  | d3,670                                 |
| Long Creek at<br>Sallis, MS<br>(07289450)                        | Lat 33°00'56", long 89°45'55",<br>in NE1/4 sec. 3, T.13 N.,<br>R.5 E., Choctaw Meridian,<br>Attala County, Hydrologic<br>Unit 08060201, at bridge on<br>State Highway 429, 0.3 mi south<br>of Sallis. Drainage area is<br>42.1 mi <sup>2</sup> .                                                                  | 1999-2000                          | 05-08-00                         | 21.74                     | 2,600                                  | 05-08-00                 | 21.74                  | 2,600                                  |
| Big Cypress Creek<br>near Pickens,<br>MS (07289504)              | Lat 32°52'45", long 90°03'32",<br>in SE1/4 sec. 14, T.12 N.,<br>R.2 E., Choctaw Meridian,<br>Yazoo County, Hydrologic<br>Unit 08060202, at bridge on<br>state Highway 432, 5 mi west<br>of Pickens. Drainage area is<br>58.4 mi <sup>2</sup> .                                                                    | 1999-2000                          | 05-08-00                         | 17.73                     | 5,460                                  | 05-08-00                 | 17.73                  | 5,460                                  |
| Tilda Bogue near<br>Canton, MS<br>(07289600)                     | Lat 32°39'18", long 90°00'53",<br>in SW1/4 sec. 5, T.9 N., R.3 E.,<br>Choctaw Meridian, Madison<br>County, Hydrologic Unit<br>08060202, at bridge on U.S.<br>Highway 51, 3.0 mi north of<br>Canton, and 3.5 mi above mouth.<br>Drainage are is 24.4 mi <sup>2</sup> .                                             | 1948-2000                          | 05-08-00                         | 18.00                     | 2,310                                  | 04-29-53                 | 19.00                  | 8,800                                  |

## Crest-stage partial-record stations

## Maximum discharge at crest-stage partial-record stations

| Maximum discharge at crest-stage partial-record stations        |                                                                                                                                                                                                                                                                                                           |                        |                         |                        |                                        |          |                        |                                        |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|------------------------|----------------------------------------|----------|------------------------|----------------------------------------|
| Station name<br>and<br>number                                   | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                          | Period<br>of<br>record | Water year 2000 maximum |                        | Period of record maximum               |          |                        |                                        |
|                                                                 |                                                                                                                                                                                                                                                                                                           |                        | Date                    | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) | Date     | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) |
| BIG BLACK RIVER BASIN--Continued                                |                                                                                                                                                                                                                                                                                                           |                        |                         |                        |                                        |          |                        |                                        |
| Walesheba Creek<br>near Bentonina,<br>MS (07289690)             | Lat 32°41'06", long 90°18'19",<br>in NW1/4 sec. 28, T.10 N.,<br>1 W., Choctaw Meridian, Yazoo<br>County, Hydrologic Unit<br>08060202, at bridge on State<br>Highway 433, 2.8 mi southwest of<br>Myrleville, and 5.6 mi east of<br>Bentonina. Drainage are is 36.4 mi <sup>2</sup> .                       | 1966,                  | 05-29-98                | 20.36                  | d3,570                                 | 02-10-66 | 22.42                  | f10,500                                |
|                                                                 |                                                                                                                                                                                                                                                                                                           | 1998-2000              | 05-08-00                | 20.67                  | 4,220                                  |          |                        |                                        |
| Clear Creek near<br>Bovina, MS<br>(07290005)                    | Lat 32°21'45", long 90°43'40",<br>in SW1/4 sec. 17, T.16 N.,<br>R.5 E., Washington Meridian,<br>Warren County, Hydrologic<br>Unit 08060202, on county<br>road, 1.0 mi northeast of<br>Bovina. Dainage area is<br>32.0 mi <sup>2</sup> .                                                                   | 1953-2000              | 04-03-00                | 21.43                  | 3,800                                  | 04-13-69 | 30.03                  | 21,000                                 |
| BAYOU PIERRE BASIN                                              |                                                                                                                                                                                                                                                                                                           |                        |                         |                        |                                        |          |                        |                                        |
| Bayou Pierre<br>near<br>Glancy, MS<br>(07290250)                | Lat 31°49'40", long 90°28'53",<br>in NE1/4 sec. 22, T.10 N., R.<br>7 E., Washington Meridian,<br>Copiah County, Hydrologic<br>Unit 08060203, at bridge on<br>State Highway 28, 1.2 mi<br>northeast of Glancy.<br>Drainage area is 122 mi <sup>2</sup> .                                                   | 1998-2000              | 04-03-00                | 14.81                  | 1,390                                  | 01-07-98 | 17.29                  | 9,840                                  |
| Tallahalla Creek<br>at Utica,<br>MS (07290549.95)               | Lat 32°04'54", long 90°35'53",<br>in SW1/4 sec. 22, T.3 N., R.<br>4 W., Choctaw Meridian,<br>Hinds County, Hydrologic<br>Unit 08060203, at bridge on<br>State Highway 27, 2.5 mi<br>southeast of Utica.<br>Drainage area is 72.0 mi <sup>2</sup> .                                                        | 1998-2000              | 01-22-98                | 22.19                  | d8,230                                 | 01-22-98 | 22.19                  | d8,230                                 |
|                                                                 |                                                                                                                                                                                                                                                                                                           |                        | 01-30-99                | 20.19                  | d7,030                                 |          |                        |                                        |
|                                                                 |                                                                                                                                                                                                                                                                                                           |                        | 04-03-00                | 20.87                  | 7,440                                  |          |                        |                                        |
| Clarks Creek<br>near Pattison,<br>MS (07290690)                 | Lat 31°53'36", long 90°50'31",<br>in irregular sec. 35, T.11 N.,<br>R.4 E., Washington Meridian,<br>Claiborne County, Hydrologic<br>Unit 08060203, at bridge on<br>county highway, 1.3 mi above<br>mouth, and 2.5 mi east of<br>Pattison. Drainage area is<br>75.0 mi <sup>2</sup> .                      | 1961-62+,<br>1963-2000 | 04-03-00                | <14.63                 | <6,110                                 | 04-12-80 | 27.90                  | 31,000                                 |
| COLES CREEK BASIN                                               |                                                                                                                                                                                                                                                                                                           |                        |                         |                        |                                        |          |                        |                                        |
| Little Creek<br>near<br>Fayette, MS<br>(07290830)               | Lat 31°40'30", long 91°04'10",<br>in irregular sec. 24, T.8 N.,<br>R.1 E., Washington Meridian,<br>Jefferson County, Hydrologic<br>Unit 08060204, at culvert on<br>State Highway 33, 2.0 mi south<br>of Fayette. Drainage area<br>is 1.71 mi <sup>2</sup> .                                               | 1967-2000              | 04-03-00                | 7.81                   | 518                                    | 04-12-74 | 15.45                  | 1,800                                  |
| North Fork Coles<br>Creek near<br>Church Hill,<br>MS (07290855) | Lat 31°46'45", long 91°10'00",<br>in SW1/4 SE1/4 sec. 4, T.9 N.,<br>R.1 W., Washington Meridian,<br>Jefferson County, Hydrologic<br>Unit 08060204, at bridge on<br>county road, 1.7 mi upstream<br>of mouth and 0.6 mi northwest<br>of Natchez Trace Parkway.<br>Drainage area is 115 mi <sup>2</sup> .   | 1999-2000              | 04-03-00                | 33.58                  | 8,580                                  | 01-30-99 | 34.25                  | 9,250                                  |
| South Fork Coles<br>Creek near<br>Church Hill,<br>MS (07290860) | Lat 31°44'53", long 91°10'44",<br>in NE1/4 NW1/4 sec. 32, T.9 N.,<br>R.1 W., Washington Meridian,<br>Jefferson County, Hydrologic<br>Unit 08060204, at bridge on<br>State Highway 553, 2.5 mi<br>upstream of mouth and 0.3 mi<br>west of Natchez Trace Parkway.<br>Drainage area is 108 mi <sup>2</sup> . | 1999-2000              | 01-30-99                | 25.36                  | d12,400                                | 01-30-99 | 25.36                  | d12,400                                |
|                                                                 |                                                                                                                                                                                                                                                                                                           |                        | 04-03-00                | 21.30                  | 5,830                                  |          |                        |                                        |
| HOMOCHITTO RIVER BASIN                                          |                                                                                                                                                                                                                                                                                                           |                        |                         |                        |                                        |          |                        |                                        |
| McCall Creek<br>near<br>Lucien, MS<br>(07291250)                | Lat 31°30'54", long 90°38'53",<br>in SW1/4 sec. 6, T.6 N., R.6<br>E., Washington Meridian,<br>Franklin County, Hydrologic<br>Unit 08060205, at U.S. Highway<br>84, 0.8 mi east of Lucien.<br>Drainage area is 60.8 mi <sup>2</sup> .                                                                      | 1953,<br>1955-2000     | 04-03-00                | (b)                    | (t)                                    | 04-13-74 | 92.70                  | 23,000                                 |

## Crest-stage partial-record stations

## Maximum discharge at crest-stage partial-record stations

| Maximum discharge at crest stage partial record stations  |                                                                                                                                                                                                                                                                                                       |                        |                         |                        |                                        |                          |                        |                                        |  |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|------------------------|----------------------------------------|--------------------------|------------------------|----------------------------------------|--|
| Station name<br>and<br>number                             | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                      | Period<br>of<br>record | Water year 2000 maximum |                        |                                        | Period of record maximum |                        |                                        |  |
|                                                           |                                                                                                                                                                                                                                                                                                       |                        | Date                    | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) | Date                     | Gage<br>height<br>(ft) | Dis-<br>charge<br>(ft <sup>3</sup> /s) |  |
| THOMPSON CREEK BASIN                                      |                                                                                                                                                                                                                                                                                                       |                        |                         |                        |                                        |                          |                        |                                        |  |
| Moore's Branch<br>near<br>Woodville, MS<br>(07373550)     | Lat 31°05'15", long 91°14'31",<br>in SE1/4 SW1/4 sec. 32, T.2 N.,<br>R.1 W., Washington Meridian,<br>Wilkinson County, Hydrologic<br>Unit 08070201, at State<br>Highway 24, 3.3 mi east of<br>Woodville. Prior to Oct. 1,<br>1964, at datum 0.88 ft lower.<br>Drainage area is 0.21 mi <sup>2</sup> . | 1955-2000              | 04-03-00                | 3.39                   | 114                                    | 03-24-73                 | 9.90                   | 455                                    |  |
| MISSISSIPPI RIVER DELTA BASIN                             |                                                                                                                                                                                                                                                                                                       |                        |                         |                        |                                        |                          |                        |                                        |  |
| East Fork Amite<br>River near<br>Peoria, MS<br>(07376680) | Lat 31°05'55", long 90°43'10",<br>in NE1/4 sec. 32, T.2 N.,<br>R.5 E., Washington Meridian,<br>Amite County, Hydrologic<br>Unit 08070202, at bridge on<br>State Highway 584, 6.7 mi<br>southeast of Liberty and<br>about 5 mi south of Peoria.<br>Drainage area is 179 mi <sup>2</sup> .              | 1990,<br>1998-2000     | 01-07-98<br>04-03-00    | 18.18<br>(b)           | 16,000<br>(t)                          | 01-25-90                 | a21.10                 | f34,000                                |  |

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

b High-water mark was not determined.

c Gage heights and discharge measurements in files of Corps of Engineers.

d Revised.

e Published at site near Howard, 3 mi downstream.

f Estimated.

## Special study and miscellaneous sites

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the State.

Discharge measurements made at special study and miscellaneous sites during water year 2000

|                                                |                  |                                                                                                       |                                        |                                            | <u>Measurements</u> |                      |
|------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|---------------------|----------------------|
| Stream                                         | Tributary to     | Location                                                                                              | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Discharge<br>Date   | (ft <sup>3</sup> /s) |
| PASCAGOULA RIVER BASIN                         |                  |                                                                                                       |                                        |                                            |                     |                      |
| 02479330                                       | Pascagoula River | Lat 30°35'00", long 88°34'14"                                                                         | 8,204                                  | 1994,                                      | 07-17-00            | 317                  |
| Pascagoula<br>River at<br>Cumbest Bluff,<br>MS |                  | in sec. 27. T.5 S., R.6 W.,<br>St. Stephens Meridian,<br>Jackson County, Hydrologic<br>Unit 03170006. |                                        |                                            | 07-18-00            | 1,990                |

Discharge measurements made at special study and miscellaneous sites during water year 2000

## PASCAGOULA RIVER BASIN

02479330 PASCAGOULA RIVER AT CUMBEST BLUFF, MS

LOCATION.--Lat 30°35'00", long 88°34'14", in NE1/4 sec.27, T.5 S., R.6 W., St. Stephens Meridian, Jackson County, Hydrologic Unit 03170006, 0.5 mi southwest of Three Rivers.

DRAINAGE AREA.--8,204 mi<sup>2</sup>.

PERIOD OF RECORD.--September 20 at 1230 hours through September 21 at 1245 hours, 2000.

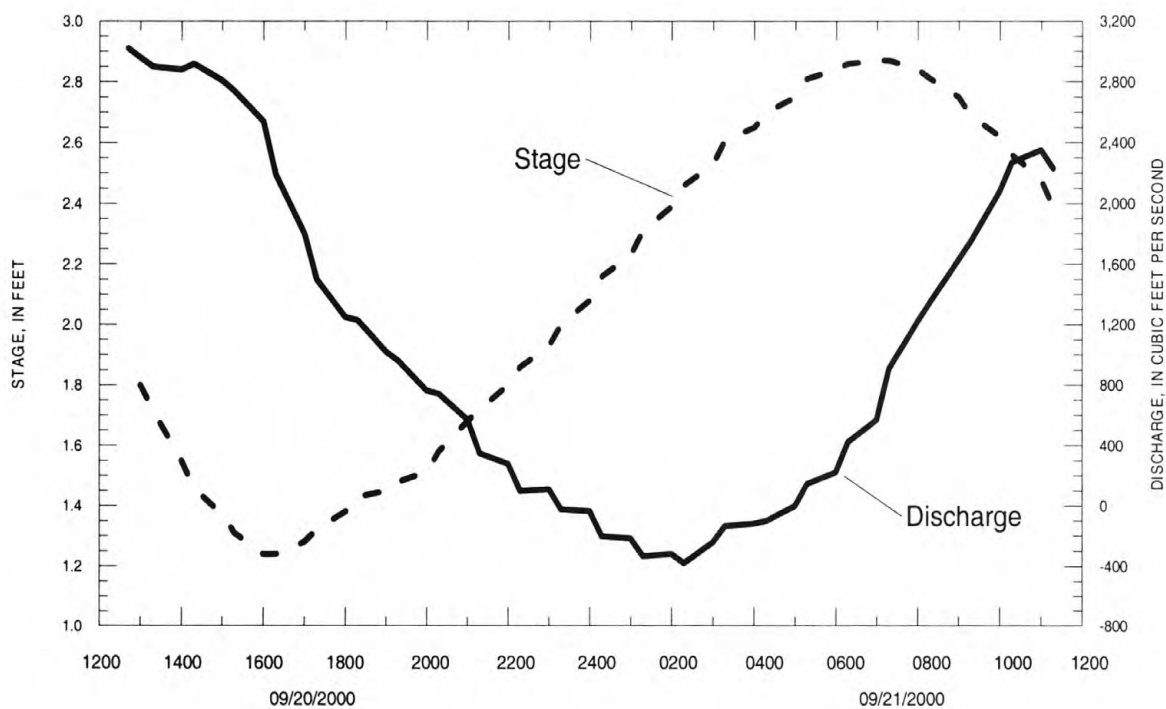
GAGE.--Temporary staff gage. Datum of gage was set at approximately sea level.

REMARKS.--Measurements of gage height and discharge were made approximately every 11 minutes through a complete 25-hour tidal cycle.

## EXTREMES FOR PERIOD OF STUDY.--

GAGE HEIGHT: Maximum 3.4 ft, Sept. 21 at 0700 hours; minimum, 1.2 ft, Sept. 20 at 1605 hours; average, 2.1 ft.

DISCHARGE: Maximum 3,010 ft<sup>3</sup>/s, Sept. 20 at 1345 hours; minimum, -380 ft<sup>3</sup>/s, Sept. 21 at 0230 hours; average 1,210 ft<sup>3</sup>/s.





Discharge measurements made at special study and miscellaneous sites during water year 2000

## PASCAGOULA RIVER BASIN--Continued

02480210 PASCAGOULA RIVER AT HIGHWAY 90 AT PASCAGOULA, MS

LOCATION.--Lat 30°22'18", long 88°33'45", sec.7, T.8 S., R.6 W., St. Stephens Meridian, Jackson County, Hydrologic Unit 03170006, at U.S. Highway 90, 0.5 mi west of Pascagoula.

DRAINAGE AREA.--9,500 mi<sup>2</sup>.

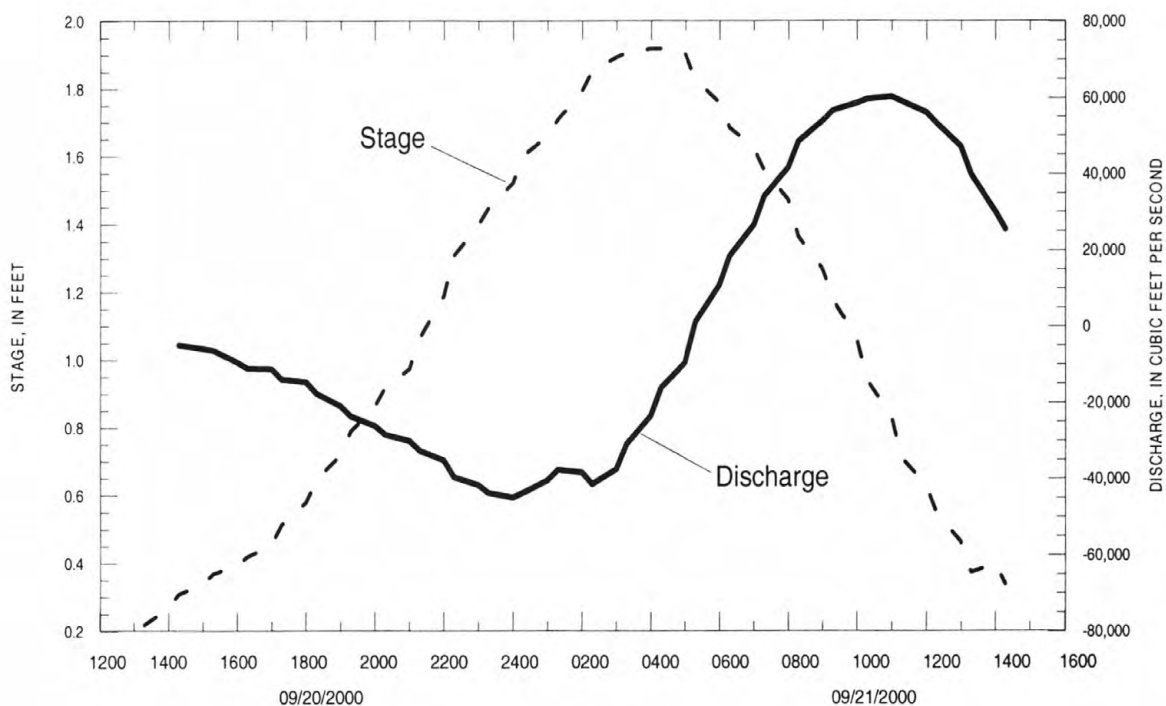
PERIOD OF RECORD.--September 20 at 1315 hours through September 21 at 1420 hours, 2000.

GAGE.--Temporary staff gage. Datum of gage was set at approximately NGVD of 1929.

REMARKS.--Measurements of gage height and discharge were made approximately every 40 minutes through a complete 25-hour tidal cycle at a location approximately 0.1 mi downstream of U.S. Highway 90. Discharges are combined for Pascagoula and West Pascagoula Rivers.

EXTREMES FOR PERIOD OF STUDY.--

GAGE HEIGHT: Maximum 1.9 ft., Sept. 21 at 0430 hours; minimum, 0.2 ft., Sept. 20 at 1420 hours; average, 1.1 ft.  
DISCHARGE: Maximum 60,400 ft<sup>3</sup>/s, Sept. 21 at 1100 hours; minimum, -44,900 ft<sup>3</sup>/s, Sept. 20 at 2400 hours; average, 683 ft<sup>3</sup>/s.



Discharge measurements made at special study and miscellaneous sites during water year 2000

## BILOXI RIVER BASIN

02481278 BACK BAY OF BILOXI AT D'IBERVILLE, MS

LOCATION.--Lat 30°25'10", long 88°53'48", S1/2 sec.22, T.7 S., R.9 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, at Interstate Highway 110, 0.5 mi north of Biloxi.

DRAINAGE AREA.--589 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--September 21 at 1715 hours through September 22 at 1820 hours, 2000.

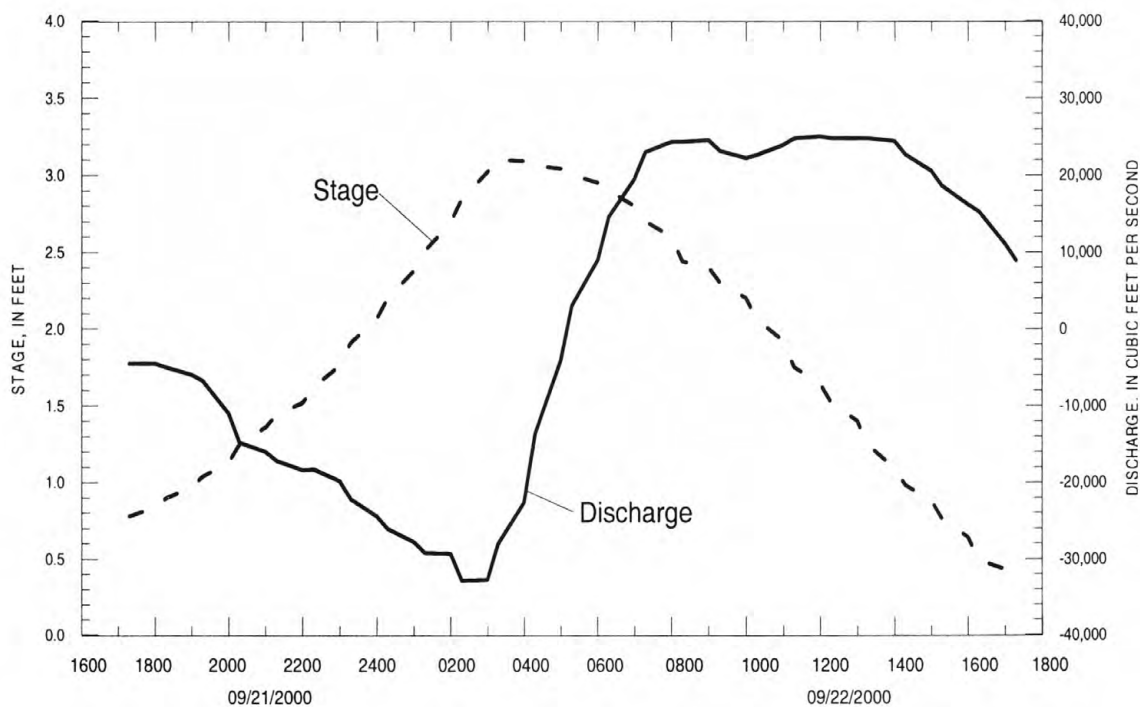
GAGE.--Temporary staff gage. Datum of gage was set at approximately NGVD of 1929.

REMARKS.--Measurements of gage height and discharge were made approximately every 40 minutes through a complete 25-hour tidal cycle at a location approximately 0.1 mi downstream of Interstate Highway 110.

## EXTREMES FOR PERIOD OF STUDY.--

GAGE HEIGHT: Maximum 3.1 ft, Sept. 22 at 0330 hours; minimum, 0.4 ft, Sept. 22, at 1700 hours; average, 1.8 ft.

DISCHARGE: Maximum 25,000 ft<sup>3</sup>/s, Sept. 22 at 1145 hours; minimum, -34,900 ft<sup>3</sup>/s, Sept. 22 at 0245 hours; average, 1,240 ft<sup>3</sup>/s.



## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 2000

## JOURDAN RIVER BASIN

02481660 JOURDAN RIVER NEAR BAY ST. LOUIS, MS

LOCATION.--Lat 30°23'12", long 89°26'28", SW1/4 sec.31, T.7 S., R.14 W., St. Stephens Meridian, Hancock County, Hydrologic Unit 03170009, at State Highway 43, 1.5 mi south of Kiln.

DRAINAGE AREA.--210 mi<sup>2</sup>.

PERIOD OF RECORD.--September 21 at 1700 hours through September 22 at 1800 hours, 2000.

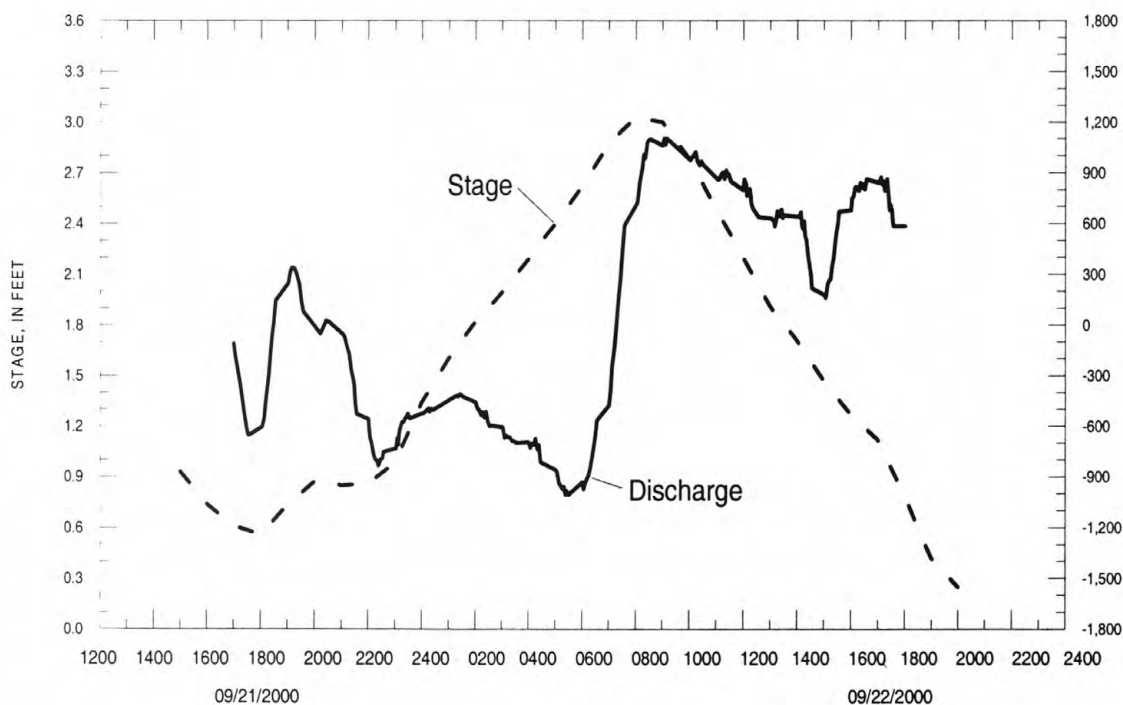
GAGE.--Temporary staff gage. Datum of gage was set at approximately NGVD of 1929.

REMARKS.--Measurements of gage height and discharge were made approximately every 6 minutes through a complete 25-hour tidal cycle at a location approximately 0.1 mi upstream of State Highway 43.

## EXTREMES FOR PERIOD OF STUDY.--

GAGE HEIGHT: Maximum 3.0 ft, Sept. 22 at 0830 hours; minimum, 0.6 ft, Sept. 22 at 1800 hours; average, 1.5 ft.

DISCHARGE: Maximum 1,100 ft<sup>3</sup>/s, Sept. 22 at 0915 hours; minimum, -1,010 ft<sup>3</sup>/s, Sept. 22 at 0540 hours; average, 43 ft<sup>3</sup>/s.



Water-quality partial-record stations and miscellaneous sites are locations where chemical-quality, biological, and (or) sediment data are collected once only, intermittently, or systematically but on limited frequency over a period of years for use in hydrologic analyses.

## SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

## MOBILE RIVER BASIN

## 02437000 Tombigbee River near Amory, MS

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY)<br>(80155) |
|--------------|------|-----------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|
| JAN<br>20... | 1500 | 458                                                                   | 48                                                                      | 59                                                                       |

## 02437500 Tombigbee River at Aberdeen, MS

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY)<br>(80155) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) |
|--------------|------|-----------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| JAN<br>19... | 1610 | 1230                                                                  | 65                                                                      | 216                                                                      | --                                                                       |
| FEB<br>29... | 1500 | 1200                                                                  | 79                                                                      | 256                                                                      | --                                                                       |
| APR<br>02... | 1215 | 29000                                                                 | 699                                                                     | 54700                                                                    | --                                                                       |
| 03...        | 1430 | 52600                                                                 | 650                                                                     | 92300                                                                    | --                                                                       |
| 04...        | 0800 | 56300                                                                 | 585                                                                     | 88900                                                                    | 72                                                                       |
| 05...        | 1630 | 26800                                                                 | 176                                                                     | 12700                                                                    | --                                                                       |
| 06...        | 0740 | 24400                                                                 | 115                                                                     | 7580                                                                     | --                                                                       |
| 13...        | 1020 | 6090                                                                  | 51                                                                      | 839                                                                      | --                                                                       |

| DATE         | TIME | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.002 MM<br>(70337) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.004 MM<br>(70338) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.008 MM<br>(70339) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.016 MM<br>(70340) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.031 MM<br>(70341) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70342) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.125 MM<br>(70343) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.250 MM<br>(70344) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>.500 MM<br>(70345) | SED.<br>SUSP.<br>FALL<br>DIAM.<br>% FINER<br>THAN<br>1.00 MM<br>(70346) |
|--------------|------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| APR<br>04... | 0800 | 26                                                                      | 37                                                                      | 45                                                                      | 50                                                                      | 66                                                                      | 72                                                                      | 81                                                                      | 96                                                                      | 96                                                                      | 100                                                                     |

## 02441400 Tombigbee River near Columbus, MS

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY)<br>(80155) |
|--------------|------|-----------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|
| JAN<br>18... | 1430 | 2030                                                                  | 56                                                                      | 307                                                                      |
| MAR<br>01... | 1640 | 4610                                                                  | 39                                                                      | 485                                                                      |
| APR<br>11... | 1230 | 7560                                                                  | 55                                                                      | 1120                                                                     |

Short-term water-quality studies were conducted on selected stream reaches to collect water-quality data for use in hydrologic analyses.

## PASCAGOULA AND ESCATAWPA RIVERS STUDY

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

303213088352400 PASCAGOULA RIVER AT MI 20

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1730 | 7.2                                            | 7.2                                                                  | 316                                                          | 27.5                                            | 1.00                                        |
| 20... | 1731 | 7.2                                            | 7.1                                                                  | 315                                                          | 27.5                                            | 5.00                                        |
| 20... | 1732 | 7.1                                            | 7.1                                                                  | 309                                                          | 27.5                                            | 10.0                                        |
| 20... | 1733 | 7.1                                            | 7.1                                                                  | 307                                                          | 27.5                                            | 13.0                                        |
| 21... | 0910 | 7.0                                            | 7.2                                                                  | 341                                                          | 27.5                                            | 1.00                                        |
| 21... | 0911 | 6.8                                            | 7.0                                                                  | 345                                                          | 27.5                                            | 5.00                                        |
| 21... | 0912 | 6.8                                            | 6.9                                                                  | 344                                                          | 27.5                                            | 10.0                                        |
| 21... | 0913 | 6.8                                            | 6.9                                                                  | 339                                                          | 27.5                                            | 13.0                                        |

303156088350300 PASCAGOULA RIVER AT MI 19

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1720 | 7.2                                            | 7.4                                                                  | 330                                                          | 27.5                                            | 1.00                                        |
| 20... | 1721 | 7.2                                            | 7.2                                                                  | 334                                                          | 27.5                                            | 5.00                                        |
| 20... | 1722 | 7.1                                            | 7.2                                                                  | 330                                                          | 27.5                                            | 10.0                                        |
| 20... | 1723 | 7.1                                            | 7.2                                                                  | 320                                                          | 27.5                                            | 15.0                                        |
| 20... | 1724 | 7.1                                            | 7.2                                                                  | 306                                                          | 27.5                                            | 20.0                                        |
| 20... | 1725 | 7.1                                            | 7.1                                                                  | 295                                                          | 27.5                                            | 22.0                                        |
| 21... | 0900 | 7.2                                            | 7.1                                                                  | 367                                                          | 27.5                                            | 1.00                                        |
| 21... | 0901 | 7.0                                            | 7.1                                                                  | 360                                                          | 27.5                                            | 5.00                                        |
| 21... | 0902 | 7.0                                            | 7.0                                                                  | 361                                                          | 27.5                                            | 10.0                                        |
| 21... | 0903 | 7.0                                            | 7.0                                                                  | 355                                                          | 27.5                                            | 15.0                                        |
| 21... | 0904 | 7.0                                            | 7.0                                                                  | 361                                                          | 27.5                                            | 20.0                                        |
| 21... | 0905 | 6.9                                            | 6.9                                                                  | 382                                                          | 27.5                                            | 22.0                                        |

303112088353800 PASCAGOULA RIVER AT MI 18

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1710 | 7.4                                            | 7.4                                                                  | 343                                                          | 28.0                                            | 1.00                                        |
| 20... | 1711 | 7.2                                            | 7.3                                                                  | 393                                                          | 27.5                                            | 5.00                                        |
| 20... | 1712 | 7.2                                            | 7.3                                                                  | 464                                                          | 28.0                                            | 10.0                                        |
| 20... | 1713 | 1.4                                            | 7.2                                                                  | 23500                                                        | 28.5                                            | 15.0                                        |
| 20... | 1714 | .5                                             | 7.2                                                                  | 26400                                                        | 28.5                                            | 18.0                                        |
| 21... | 0850 | 7.1                                            | 7.2                                                                  | 624                                                          | 27.5                                            | 1.00                                        |
| 21... | 0851 | 7.0                                            | 7.1                                                                  | 830                                                          | 27.5                                            | 5.00                                        |
| 21... | 0852 | 6.1                                            | 7.0                                                                  | 3270                                                         | 28.0                                            | 10.0                                        |
| 21... | 0853 | 2.4                                            | 6.9                                                                  | 20200                                                        | 28.5                                            | 15.0                                        |
| 21... | 0854 | .6                                             | 7.0                                                                  | 22600                                                        | 28.5                                            | 18.0                                        |

02479340 PASCAGOULA RIVER AT MI 17.3 NR COLL TOWN, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1705 | 7.4                                            | 7.4                                                                  | 505                                                          | 28.0                                            | 1.00                                        |
| 20... | 1706 | 7.0                                            | 7.3                                                                  | 1010                                                         | 27.5                                            | 5.00                                        |
| 20... | 1707 | 6.8                                            | 7.3                                                                  | 1790                                                         | 28.0                                            | 10.0                                        |
| 20... | 1708 | 6.6                                            | 7.3                                                                  | 2090                                                         | 28.0                                            | 11.0                                        |
| 21... | 0845 | 7.2                                            | 7.4                                                                  | 598                                                          | 27.5                                            | 1.00                                        |
| 21... | 0846 | 6.5                                            | 7.0                                                                  | 1810                                                         | 27.5                                            | 5.00                                        |
| 21... | 0847 | 5.4                                            | 6.9                                                                  | 5920                                                         | 28.0                                            | 10.0                                        |
| 21... | 0848 | 2.7                                            | 6.9                                                                  | 17100                                                        | 28.5                                            | 13.0                                        |

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

## 303048088355800 PASCAGOULA RIVER AT MI 17

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1700 | 8.1                                            | 7.5                                                                  | 1240                                                         | 28.0                                            | 1.00                                        |
| 20... | 1701 | 7.0                                            | 7.4                                                                  | 1690                                                         | 28.0                                            | 5.00                                        |
| 20... | 1702 | 6.6                                            | 7.3                                                                  | 3100                                                         | 28.0                                            | 10.0                                        |
| 20... | 1703 | 6.1                                            | 7.3                                                                  | 3980                                                         | 28.0                                            | 14.0                                        |
| 21... | 0840 | 7.1                                            | 7.4                                                                  | 1090                                                         | 27.5                                            | 1.00                                        |
| 21... | 0841 | 7.0                                            | 7.3                                                                  | 1250                                                         | 27.5                                            | 5.00                                        |
| 21... | 0842 | 3.4                                            | 7.0                                                                  | 17900                                                        | 28.0                                            | 10.0                                        |
| 21... | 0843 | 1.4                                            | 7.0                                                                  | 28100                                                        | 28.5                                            | 15.0                                        |
| 21... | 0844 | .5                                             | 7.0                                                                  | 30700                                                        | 28.5                                            | 18.0                                        |

## 303044088353000 PASCAGOULA RIVER AT MI 16

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1650 | 7.0                                            | 7.4                                                                  | 2590                                                         | 28.0                                            | 1.00                                        |
| 20... | 1651 | 6.8                                            | 7.4                                                                  | 2840                                                         | 28.0                                            | 5.00                                        |
| 20... | 1652 | 6.4                                            | 7.4                                                                  | 4050                                                         | 28.0                                            | 10.0                                        |
| 20... | 1653 | .4                                             | 7.3                                                                  | 33400                                                        | 29.0                                            | 15.0                                        |
| 21... | 0830 | 8.0                                            | 7.4                                                                  | 2600                                                         | 28.0                                            | 1.00                                        |
| 21... | 0831 | 6.4                                            | 7.2                                                                  | 3540                                                         | 28.0                                            | 5.00                                        |
| 21... | 0832 | 2.4                                            | 7.0                                                                  | 23700                                                        | 28.5                                            | 10.0                                        |
| 21... | 0833 | .8                                             | 7.1                                                                  | 32100                                                        | 28.5                                            | 15.0                                        |
| 21... | 0834 | .2                                             | 7.1                                                                  | 32200                                                        | 28.5                                            | 16.0                                        |

## 303018088351800 PASCAGOULA RIVER AT MI 15

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1640 | 6.8                                            | 7.4                                                                  | 3890                                                         | 28.5                                            | 1.00                                        |
| 20... | 1641 | 6.8                                            | 7.4                                                                  | 4320                                                         | 28.5                                            | 5.00                                        |
| 20... | 1642 | 6.6                                            | 7.4                                                                  | 4970                                                         | 28.5                                            | 10.0                                        |
| 20... | 1643 | 6.1                                            | 7.4                                                                  | 5550                                                         | 28.5                                            | 11.0                                        |
| 21... | 0820 | 6.7                                            | 7.3                                                                  | 3590                                                         | 28.0                                            | 1.00                                        |
| 21... | 0821 | 6.3                                            | 7.2                                                                  | 4520                                                         | 28.0                                            | 5.00                                        |
| 21... | 0822 | .8                                             | 7.2                                                                  | 34800                                                        | 28.5                                            | 10.0                                        |
| 21... | 0823 | .1                                             | 7.2                                                                  | 35700                                                        | 27.5                                            | 13.0                                        |

## 302954088344000 PASCAGOULA RIVER AT MI 14

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1630 | 6.8                                            | 7.4                                                                  | 6320                                                         | 28.5                                            | 1.00                                        |
| 20... | 1631 | 6.5                                            | 7.4                                                                  | 6480                                                         | 28.5                                            | 5.00                                        |
| 20... | 1632 | 5.3                                            | 7.4                                                                  | 9720                                                         | 28.5                                            | 10.0                                        |
| 20... | 1633 | 1.3                                            | 7.3                                                                  | 30400                                                        | 28.5                                            | 15.0                                        |
| 20... | 1634 | .3                                             | 7.4                                                                  | 33900                                                        | 29.0                                            | 20.0                                        |
| 20... | 1635 | .2                                             | 7.4                                                                  | 34900                                                        | 29.0                                            | 22.0                                        |
| 21... | 0810 | 8.8                                            | 7.3                                                                  | 5240                                                         | 28.0                                            | 1.00                                        |
| 21... | 0811 | 5.4                                            | 7.2                                                                  | 9420                                                         | 28.5                                            | 5.00                                        |
| 21... | 0812 | .9                                             | 7.2                                                                  | 37100                                                        | 28.5                                            | 10.0                                        |
| 21... | 0813 | .3                                             | 7.3                                                                  | 37900                                                        | 28.5                                            | 15.0                                        |
| 21... | 0814 | .2                                             | 7.3                                                                  | 38000                                                        | 28.5                                            | 20.0                                        |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02479341 PASCAGOULA RIVER AT MI 13 NR COLL TOWN, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1620 | 6.2                                            | 7.4                                                                  | 9280                                                         | 28.5                                            | 1.00                                        |
| 20... | 1621 | 6.1                                            | 7.5                                                                  | 9660                                                         | 28.5                                            | 5.00                                        |
| 20... | 1622 | 2.0                                            | 7.4                                                                  | 33700                                                        | 29.0                                            | 10.0                                        |
| 20... | 1623 | .2                                             | 7.5                                                                  | 37400                                                        | 29.0                                            | 13.0                                        |
| 21... | 0800 | 5.9                                            | 7.3                                                                  | 7160                                                         | 28.0                                            | 1.00                                        |
| 21... | 0801 | 5.4                                            | 7.2                                                                  | 12700                                                        | 28.0                                            | 5.00                                        |
| 21... | 0802 | 1.8                                            | 7.3                                                                  | 36400                                                        | 28.0                                            | 10.0                                        |
| 21... | 0803 | .4                                             | 7.3                                                                  | 38200                                                        | 28.5                                            | 15.0                                        |

02479342 PASCAGOULA RIVER AT MI 12 NR COLL TOWN, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1608 | 6.0                                            | 7.5                                                                  | 13000                                                        | 29.0                                            | 1.00                                        |
| 20... | 1609 | 5.7                                            | 7.6                                                                  | 13400                                                        | 29.0                                            | 5.00                                        |
| 20... | 1610 | .4                                             | 7.5                                                                  | 37100                                                        | 29.0                                            | 10.0                                        |
| 20... | 1611 | .2                                             | 7.7                                                                  | 39100                                                        | 29.0                                            | 15.0                                        |
| 20... | 1612 | .1                                             | 7.7                                                                  | 39600                                                        | 29.0                                            | 20.0                                        |
| 20... | 1613 | .1                                             | 7.7                                                                  | 40000                                                        | 28.5                                            | 23.0                                        |
| 21... | 0750 | 6.7                                            | 7.3                                                                  | 11200                                                        | 28.0                                            | 1.00                                        |
| 21... | 0751 | 3.6                                            | 7.2                                                                  | 23200                                                        | 28.5                                            | 5.00                                        |
| 21... | 0752 | 1.8                                            | 7.4                                                                  | 34900                                                        | 28.0                                            | 10.0                                        |
| 21... | 0753 | .8                                             | 7.4                                                                  | 37100                                                        | 28.0                                            | 15.0                                        |
| 21... | 0754 | .5                                             | 7.4                                                                  | 37900                                                        | 28.0                                            | 20.0                                        |
| 21... | 0755 | .2                                             | 7.4                                                                  | 38500                                                        | 28.5                                            | 25.0                                        |
| 21... | 0756 | .1                                             | 7.4                                                                  | 38500                                                        | 28.5                                            | 27.0                                        |

302822088332500 PASCAGOULA RIVER AT MI 11

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1600 | 6.8                                            | 7.7                                                                  | 12200                                                        | 29.0                                            | 1.00                                        |
| 20... | 1601 | 6.1                                            | 7.6                                                                  | 13200                                                        | 29.0                                            | 5.00                                        |
| 20... | 1602 | .8                                             | 7.5                                                                  | 35200                                                        | 28.5                                            | 10.0                                        |
| 20... | 1603 | .2                                             | 7.6                                                                  | 39200                                                        | 28.5                                            | 15.0                                        |
| 20... | 1604 | .1                                             | 7.7                                                                  | 40000                                                        | 28.5                                            | 20.0                                        |
| 20... | 1605 | .1                                             | 7.8                                                                  | 40300                                                        | 28.5                                            | 23.0                                        |
| 21... | 0740 | 6.8                                            | 7.4                                                                  | 13700                                                        | 28.0                                            | 1.00                                        |
| 21... | 0741 | 4.3                                            | 7.4                                                                  | 28800                                                        | 28.0                                            | 5.00                                        |
| 21... | 0742 | 3.7                                            | 7.5                                                                  | 35900                                                        | 28.0                                            | 10.0                                        |
| 21... | 0743 | 1.3                                            | 7.5                                                                  | 36800                                                        | 27.5                                            | 15.0                                        |
| 21... | 0744 | .6                                             | 7.4                                                                  | 37700                                                        | 28.0                                            | 20.0                                        |
| 21... | 0745 | .5                                             | 7.4                                                                  | 37600                                                        | 28.0                                            | 21.0                                        |

302725088333700 PASCAGOULA RIVER AT MI 10

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1555 | 7.5                                            | 7.5                                                                  | 10800                                                        | 29.5                                            | 1.00                                        |
| 20... | 1556 | 5.1                                            | 7.4                                                                  | 14700                                                        | 28.5                                            | 5.00                                        |
| 20... | 1557 | .7                                             | 7.4                                                                  | 34600                                                        | 28.5                                            | 10.0                                        |
| 20... | 1558 | .1                                             | 7.6                                                                  | 39400                                                        | 28.5                                            | 15.0                                        |
| 21... | 0730 | 6.1                                            | 7.5                                                                  | 16400                                                        | 28.0                                            | 1.00                                        |
| 21... | 0731 | 4.4                                            | 7.6                                                                  | 31800                                                        | 28.0                                            | 5.00                                        |
| 21... | 0732 | 2.8                                            | 7.6                                                                  | 37100                                                        | 27.5                                            | 10.0                                        |
| 21... | 0733 | 2.5                                            | 7.6                                                                  | 37300                                                        | 27.5                                            | 15.0                                        |
| 21... | 0734 | 2.3                                            | 7.6                                                                  | 37500                                                        | 27.5                                            | 17.0                                        |

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

302648088340600 PASCAGOULA RIVER AT MI 9

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1545 | 8.4                                            | 7.8                                                                  | 12900                                                        | 29.5                                            | 1.00                                        |
| 20... | 1546 | 4.5                                            | 7.5                                                                  | 17400                                                        | 28.5                                            | 5.00                                        |
| 20... | 1547 | .8                                             | 7.5                                                                  | 37900                                                        | 28.5                                            | 10.0                                        |
| 20... | 1548 | .4                                             | 7.6                                                                  | 38900                                                        | 28.0                                            | 15.0                                        |
| 20... | 1549 | .4                                             | 7.7                                                                  | 38800                                                        | 28.0                                            | 18.0                                        |
| 21... | 0722 | 6.4                                            | 7.6                                                                  | 17800                                                        | 28.0                                            | 1.00                                        |
| 21... | 0723 | 5.1                                            | 7.6                                                                  | 32100                                                        | 27.5                                            | 5.00                                        |
| 21... | 0724 | 3.9                                            | 7.7                                                                  | 38800                                                        | 27.5                                            | 10.0                                        |
| 21... | 0725 | 3.7                                            | 7.8                                                                  | 39800                                                        | 27.5                                            | 15.0                                        |
| 21... | 0726 | 3.7                                            | 7.8                                                                  | 39800                                                        | 27.5                                            | 20.0                                        |
| 21... | 0727 | 3.6                                            | 7.8                                                                  | 40100                                                        | 27.5                                            | 25.0                                        |
| 21... | 0728 | 3.7                                            | 7.8                                                                  | 40100                                                        | 27.5                                            | 27.0                                        |

02479343 PASCAGOULA RIVER AT MI 8 NR ESCATAWPA, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1534 | 7.8                                            | 7.4                                                                  | 15100                                                        | 29.0                                            | 1.00                                        |
| 20... | 1535 | 4.6                                            | 7.3                                                                  | 20100                                                        | 29.0                                            | 5.00                                        |
| 20... | 1536 | 2.2                                            | 7.4                                                                  | 37100                                                        | 28.0                                            | 10.0                                        |
| 20... | 1537 | 1.5                                            | 7.6                                                                  | 38400                                                        | 28.0                                            | 15.0                                        |
| 20... | 1538 | 1.5                                            | 7.6                                                                  | 38800                                                        | 27.5                                            | 20.0                                        |
| 20... | 1539 | 1.5                                            | 7.7                                                                  | 39000                                                        | 27.5                                            | 21.0                                        |
| 21... | 0715 | 4.5                                            | 7.5                                                                  | 27400                                                        | 27.5                                            | 1.00                                        |
| 21... | 0716 | 3.9                                            | 7.6                                                                  | 34600                                                        | 27.5                                            | 5.00                                        |
| 21... | 0717 | 3.9                                            | 7.8                                                                  | 40400                                                        | 27.5                                            | 10.0                                        |
| 21... | 0718 | 4.0                                            | 7.9                                                                  | 43100                                                        | 27.0                                            | 15.0                                        |
| 21... | 0719 | 4.0                                            | 7.9                                                                  | 43600                                                        | 27.0                                            | 20.0                                        |
| 21... | 0720 | 4.0                                            | 7.9                                                                  | 44000                                                        | 27.0                                            | 23.0                                        |

302526088333600 PASCAGOULA RIVER AT MI 7

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1515 | 7.4                                            | 8.0                                                                  | 22500                                                        | 29.0                                            | 1.00                                        |
| 20... | 1516 | 4.0                                            | 7.8                                                                  | 28300                                                        | 28.0                                            | 5.00                                        |
| 20... | 1517 | 2.1                                            | 7.8                                                                  | 38000                                                        | 27.5                                            | 10.0                                        |
| 20... | 1518 | 2.0                                            | 8.0                                                                  | 42300                                                        | 27.0                                            | 15.0                                        |
| 20... | 1519 | 2.1                                            | 8.0                                                                  | 42600                                                        | 27.0                                            | 20.0                                        |
| 20... | 1520 | 2.0                                            | 8.0                                                                  | 42600                                                        | 27.0                                            | 21.0                                        |
| 21... | 0705 | 7.0                                            | 7.6                                                                  | 28200                                                        | 27.5                                            | 1.00                                        |
| 21... | 0706 | 5.0                                            | 7.7                                                                  | 33100                                                        | 27.5                                            | 5.00                                        |
| 21... | 0707 | 4.5                                            | 7.9                                                                  | 42800                                                        | 27.5                                            | 10.0                                        |
| 21... | 0708 | 4.4                                            | 8.0                                                                  | 44900                                                        | 27.0                                            | 15.0                                        |
| 21... | 0709 | 4.3                                            | 8.0                                                                  | 45100                                                        | 27.0                                            | 20.0                                        |
| 21... | 0710 | 4.2                                            | 8.0                                                                  | 45100                                                        | 27.0                                            | 23.0                                        |

02480170 ESCATAWPA RIVER AT MI 14 NR ORANGE GROVE, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 21... | 0830 | 5.7                                            | 6.5                                                                  | 72                                                           | 25.5                                            | 1.00                                        |
| 21... | 0831 | 5.6                                            | 6.1                                                                  | 84                                                           | 25.5                                            | 5.00                                        |
| 21... | 0832 | 5.1                                            | 6.0                                                                  | 71                                                           | 25.5                                            | 9.00                                        |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02480180 ESCATAWPA RIVER AT MI 13 NR ORANGE GROVE, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1705 | 6.4                                            | 6.7                                                                  | 96                                                           | 25.5                                            | 1.00                                        |
| 20... | 1706 | 6.0                                            | 6.5                                                                  | 107                                                          | 25.5                                            | 5.00                                        |
| 20... | 1707 | 5.9                                            | 6.4                                                                  | 114                                                          | 25.5                                            | 10.0                                        |
| 20... | 1708 | 5.8                                            | 6.3                                                                  | 117                                                          | 25.5                                            | 12.0                                        |
| 21... | 0815 | 5.4                                            | 6.4                                                                  | 2020                                                         | 25.5                                            | 1.00                                        |
| 21... | 0816 | 4.0                                            | 6.4                                                                  | 5910                                                         | 26.5                                            | 5.00                                        |
| 21... | 0817 | 1.8                                            | 6.6                                                                  | 15700                                                        | 27.0                                            | 10.0                                        |
| 21... | 0818 | .7                                             | 6.7                                                                  | 21600                                                        | 27.5                                            | 15.0                                        |
| 21... | 0819 | .4                                             | 6.8                                                                  | 21900                                                        | 27.5                                            | 16.0                                        |

302715088270700 ESCATAWPA RIVER AT MI 12

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1655 | 5.5                                            | 6.4                                                                  | 2040                                                         | 26.0                                            | 1.00                                        |
| 20... | 1656 | 5.2                                            | 6.4                                                                  | 2510                                                         | 26.0                                            | 5.00                                        |
| 20... | 1657 | 4.7                                            | 6.4                                                                  | 4080                                                         | 26.0                                            | 10.0                                        |
| 20... | 1658 | .4                                             | 6.8                                                                  | 24400                                                        | 28.0                                            | 15.0                                        |
| 20... | 1659 | .1                                             | 6.9                                                                  | 28100                                                        | 28.0                                            | 20.0                                        |
| 20... | 1700 | .1                                             | 7.0                                                                  | 28300                                                        | 28.0                                            | 24.0                                        |
| 21... | 0805 | 5.8                                            | 6.4                                                                  | 3040                                                         | 26.0                                            | 1.00                                        |
| 21... | 0806 | 4.1                                            | 6.4                                                                  | 5630                                                         | 26.5                                            | 5.00                                        |
| 21... | 0807 | 1.1                                            | 6.8                                                                  | 24700                                                        | 27.5                                            | 10.0                                        |
| 21... | 0808 | .3                                             | 7.0                                                                  | 27500                                                        | 28.0                                            | 15.0                                        |
| 21... | 0809 | .3                                             | 7.0                                                                  | 27900                                                        | 28.0                                            | 20.0                                        |
| 21... | 0810 | .2                                             | 7.0                                                                  | 27900                                                        | 28.0                                            | 21.0                                        |

302628088271000 ESCATAWPA RIVER AT MI 11

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1650 | 5.9                                            | 6.6                                                                  | 4270                                                         | 26.5                                            | 1.00                                        |
| 20... | 1651 | 4.9                                            | 6.6                                                                  | 4600                                                         | 26.5                                            | 5.00                                        |
| 20... | 1652 | 3.7                                            | 6.6                                                                  | 8870                                                         | 26.5                                            | 10.0                                        |
| 20... | 1653 | .3                                             | 7.0                                                                  | 29800                                                        | 28.0                                            | 14.0                                        |
| 21... | 0758 | 5.8                                            | 6.5                                                                  | 3940                                                         | 26.5                                            | 1.00                                        |
| 21... | 0759 | 4.1                                            | 6.5                                                                  | 6540                                                         | 27.0                                            | 5.00                                        |
| 21... | 0800 | .6                                             | 7.0                                                                  | 29700                                                        | 28.0                                            | 10.0                                        |
| 21... | 0801 | .2                                             | 7.1                                                                  | 31200                                                        | 28.0                                            | 15.0                                        |
| 21... | 0802 | .2                                             | 7.2                                                                  | 31400                                                        | 28.0                                            | 17.0                                        |

02480181 ESCATAWPA RIVER NR ORANGE GROVE, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1640 | 5.1                                            | 6.6                                                                  | 4570                                                         | 26.5                                            | 1.00                                        |
| 20... | 1641 | 4.6                                            | 6.6                                                                  | 4950                                                         | 26.5                                            | 5.00                                        |
| 20... | 1642 | 2.7                                            | 6.7                                                                  | 12700                                                        | 26.5                                            | 10.0                                        |
| 20... | 1643 | .5                                             | 7.0                                                                  | 29600                                                        | 27.5                                            | 15.0                                        |
| 20... | 1644 | .1                                             | 7.2                                                                  | 32700                                                        | 28.0                                            | 20.0                                        |
| 20... | 1645 | .1                                             | 7.2                                                                  | 33000                                                        | 28.0                                            | 25.0                                        |
| 20... | 1646 | .1                                             | 7.2                                                                  | 33300                                                        | 28.0                                            | 26.0                                        |
| 21... | 0745 | 5.3                                            | 6.6                                                                  | 4500                                                         | 26.5                                            | 1.00                                        |
| 21... | 0746 | 3.9                                            | 6.6                                                                  | 9360                                                         | 27.0                                            | 5.00                                        |
| 21... | 0747 | .8                                             | 7.0                                                                  | 29900                                                        | 28.0                                            | 10.0                                        |
| 21... | 0748 | .3                                             | 7.2                                                                  | 31600                                                        | 28.0                                            | 15.0                                        |
| 21... | 0749 | .2                                             | 7.2                                                                  | 32000                                                        | 28.0                                            | 20.0                                        |
| 21... | 0750 | .1                                             | 7.2                                                                  | 32400                                                        | 28.0                                            | 25.0                                        |
| 21... | 0751 | .1                                             | 7.2                                                                  | 32600                                                        | 28.0                                            | 30.0                                        |
| 21... | 0752 | .1                                             | 7.2                                                                  | 32700                                                        | 28.0                                            | 33.0                                        |

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

## 02480182 ESCATAWPA RIVER AT MI 10 NR MOSS POINT, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1634 | 5.2                                            | 6.6                                                                  | 4580                                                         | 27.0                                            | 1.00                                        |
| 20... | 1635 | 4.8                                            | 6.6                                                                  | 4990                                                         | 27.0                                            | 5.00                                        |
| 20... | 1636 | 3.0                                            | 6.7                                                                  | 12800                                                        | 27.0                                            | 10.0                                        |
| 20... | 1637 | .2                                             | 7.1                                                                  | 30200                                                        | 28.0                                            | 14.0                                        |
| 21... | 0738 | 6.0                                            | 6.8                                                                  | 5190                                                         | 26.5                                            | 1.00                                        |
| 21... | 0739 | 3.4                                            | 6.8                                                                  | 11400                                                        | 27.0                                            | 5.00                                        |
| 21... | 0740 | .6                                             | 7.2                                                                  | 31900                                                        | 28.0                                            | 10.0                                        |
| 21... | 0741 | .3                                             | 7.2                                                                  | 32700                                                        | 28.0                                            | 14.0                                        |

## 02480183 ESCATAWPA RIVER AT MI 9 NR MOSS POINT, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1627 | 6.2                                            | 6.8                                                                  | 6270                                                         | 27.0                                            | 1.00                                        |
| 20... | 1628 | 4.7                                            | 6.8                                                                  | 7170                                                         | 27.0                                            | 5.00                                        |
| 20... | 1629 | 3.1                                            | 6.8                                                                  | 13900                                                        | 27.0                                            | 10.0                                        |
| 20... | 1630 | .6                                             | 7.2                                                                  | 30900                                                        | 28.0                                            | 14.0                                        |
| 21... | 0730 | 4.9                                            | 6.9                                                                  | 8590                                                         | 27.0                                            | 1.00                                        |
| 21... | 0731 | 2.3                                            | 7.0                                                                  | 24700                                                        | 27.5                                            | 5.00                                        |
| 21... | 0732 | .8                                             | 7.3                                                                  | 32600                                                        | 28.0                                            | 10.0                                        |
| 21... | 0733 | .3                                             | 7.4                                                                  | 34600                                                        | 28.0                                            | 15.0                                        |
| 21... | 0734 | .2                                             | 7.4                                                                  | 34700                                                        | 28.0                                            | 20.0                                        |
| 21... | 0735 | .2                                             | 7.4                                                                  | 34700                                                        | 28.0                                            | 24.0                                        |

## 02480184 ESCATAWPA RIVER AT MI 8 NR MOSS POINT, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1612 | 4.2                                            | 6.9                                                                  | 9910                                                         | 27.0                                            | 1.00                                        |
| 20... | 1613 | 3.8                                            | 6.8                                                                  | 11300                                                        | 27.0                                            | 5.00                                        |
| 20... | 1614 | .9                                             | 7.0                                                                  | 26700                                                        | 27.5                                            | 10.0                                        |
| 20... | 1615 | .2                                             | 7.3                                                                  | 33600                                                        | 28.0                                            | 15.0                                        |
| 20... | 1616 | .1                                             | 7.4                                                                  | 35600                                                        | 28.0                                            | 20.0                                        |
| 20... | 1617 | .1                                             | 7.5                                                                  | 37200                                                        | 28.5                                            | 25.0                                        |
| 20... | 1618 | <.1                                            | 7.5                                                                  | 38600                                                        | 28.5                                            | 30.0                                        |
| 20... | 1619 | <.1                                            | 7.6                                                                  | 39100                                                        | 28.5                                            | 35.0                                        |
| 20... | 1620 | <.1                                            | 7.6                                                                  | 39400                                                        | 28.5                                            | 40.0                                        |
| 20... | 1621 | <.1                                            | 7.6                                                                  | 39500                                                        | 28.5                                            | 45.0                                        |
| 20... | 1622 | <.1                                            | 7.6                                                                  | 39500                                                        | 28.5                                            | 50.0                                        |
| 20... | 1623 | <.1                                            | 7.6                                                                  | 39500                                                        | 28.5                                            | 54.0                                        |
| 21... | 0715 | 3.5                                            | 7.0                                                                  | 17300                                                        | 27.5                                            | 1.00                                        |
| 21... | 0716 | 1.9                                            | 7.3                                                                  | 27500                                                        | 28.0                                            | 5.00                                        |
| 21... | 0717 | .6                                             | 7.4                                                                  | 34100                                                        | 28.0                                            | 10.0                                        |
| 21... | 0718 | .3                                             | 7.4                                                                  | 35900                                                        | 28.0                                            | 15.0                                        |
| 21... | 0719 | .3                                             | 7.4                                                                  | 36000                                                        | 28.0                                            | 20.0                                        |
| 21... | 0720 | .2                                             | 7.4                                                                  | 36300                                                        | 28.0                                            | 25.0                                        |
| 21... | 0721 | .2                                             | 7.4                                                                  | 36400                                                        | 28.0                                            | 30.0                                        |
| 21... | 0722 | .2                                             | 7.4                                                                  | 36400                                                        | 28.0                                            | 35.0                                        |
| 21... | 0723 | .1                                             | 7.4                                                                  | 36500                                                        | 28.0                                            | 40.0                                        |
| 21... | 0724 | .1                                             | 7.4                                                                  | 36800                                                        | 28.0                                            | 45.0                                        |
| 21... | 0725 | <.1                                            | 7.5                                                                  | 38800                                                        | 28.5                                            | 50.0                                        |
| 21... | 0726 | <.1                                            | 7.5                                                                  | 39200                                                        | 28.5                                            | 54.0                                        |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

## 302541088290100 ESCATAWPA RIVER AT MI 7

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1600 | 3.9                                            | 7.0                                                                  | 13300                                                        | 27.5                                            | 1.00                                        |
| 20... | 1601 | 4.0                                            | 7.0                                                                  | 14400                                                        | 27.5                                            | 5.00                                        |
| 20... | 1602 | .9                                             | 7.2                                                                  | 28700                                                        | 28.0                                            | 10.0                                        |
| 20... | 1603 | .3                                             | 7.4                                                                  | 34000                                                        | 28.0                                            | 15.0                                        |
| 20... | 1604 | .2                                             | 7.4                                                                  | 35000                                                        | 28.0                                            | 20.0                                        |
| 20... | 1605 | .2                                             | 7.4                                                                  | 35400                                                        | 28.0                                            | 25.0                                        |
| 20... | 1606 | .2                                             | 7.4                                                                  | 35600                                                        | 28.0                                            | 30.0                                        |
| 20... | 1607 | .1                                             | 7.4                                                                  | 36100                                                        | 28.0                                            | 35.0                                        |
| 20... | 1608 | <.1                                            | 7.4                                                                  | 36300                                                        | 28.0                                            | 37.0                                        |
| 21... | 0703 | 4.4                                            | 7.1                                                                  | 17700                                                        | 27.0                                            | 1.00                                        |
| 21... | 0704 | 2.2                                            | 7.4                                                                  | 28700                                                        | 28.0                                            | 5.00                                        |
| 21... | 0705 | 1.3                                            | 7.4                                                                  | 33900                                                        | 28.0                                            | 10.0                                        |
| 21... | 0706 | .6                                             | 7.5                                                                  | 36200                                                        | 28.0                                            | 15.0                                        |
| 21... | 0707 | .4                                             | 7.5                                                                  | 36800                                                        | 28.0                                            | 20.0                                        |
| 21... | 0708 | .3                                             | 7.5                                                                  | 36900                                                        | 28.0                                            | 25.0                                        |
| 21... | 0709 | .3                                             | 7.5                                                                  | 37000                                                        | 28.0                                            | 30.0                                        |
| 21... | 0710 | .3                                             | 7.5                                                                  | 37100                                                        | 28.0                                            | 35.0                                        |
| 21... | 0711 | .3                                             | 7.5                                                                  | 37100                                                        | 28.0                                            | 36.0                                        |

## 302512088292200 ESCATAWPA RIVER AT MI 6

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1550 | 4.1                                            | 7.1                                                                  | 16200                                                        | 28.0                                            | 1.00                                        |
| 20... | 1551 | 2.8                                            | 7.1                                                                  | 19600                                                        | 27.5                                            | 5.00                                        |
| 20... | 1552 | .5                                             | 7.4                                                                  | 33800                                                        | 28.0                                            | 10.0                                        |
| 20... | 1553 | .1                                             | 7.5                                                                  | 37500                                                        | 28.0                                            | 15.0                                        |
| 20... | 1554 | .1                                             | 7.5                                                                  | 38500                                                        | 28.0                                            | 20.0                                        |
| 20... | 1555 | <.1                                            | 7.5                                                                  | 38600                                                        | 28.0                                            | 21.0                                        |
| 21... | 0653 | 3.0                                            | 7.4                                                                  | 30000                                                        | 28.0                                            | 1.00                                        |
| 21... | 0654 | 2.4                                            | 7.4                                                                  | 30200                                                        | 28.0                                            | 5.00                                        |
| 21... | 0655 | 1.6                                            | 7.5                                                                  | 35000                                                        | 28.0                                            | 10.0                                        |
| 21... | 0656 | .9                                             | 7.5                                                                  | 37200                                                        | 28.0                                            | 15.0                                        |
| 21... | 0657 | .7                                             | 7.5                                                                  | 37400                                                        | 28.0                                            | 20.0                                        |
| 21... | 0658 | .6                                             | 7.5                                                                  | 37500                                                        | 28.0                                            | 24.0                                        |

## 302515088301300 ESCATAWPA RIVER AT MI 5

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1544 | 3.8                                            | 7.2                                                                  | 18300                                                        | 28.0                                            | 1.00                                        |
| 20... | 1545 | 2.8                                            | 7.2                                                                  | 22100                                                        | 28.0                                            | 5.00                                        |
| 20... | 1546 | 1.1                                            | 7.4                                                                  | 29400                                                        | 28.0                                            | 10.0                                        |
| 20... | 1547 | .1                                             | 7.6                                                                  | 38300                                                        | 28.0                                            | 15.0                                        |
| 20... | 1548 | .1                                             | 7.6                                                                  | 38600                                                        | 28.0                                            | 17.0                                        |
| 21... | 0646 | 4.6                                            | 7.4                                                                  | 21200                                                        | 27.5                                            | 1.00                                        |
| 21... | 0647 | 2.3                                            | 7.5                                                                  | 33000                                                        | 28.0                                            | 5.00                                        |
| 21... | 0648 | 1.6                                            | 7.6                                                                  | 36800                                                        | 27.5                                            | 10.0                                        |
| 21... | 0649 | 1.3                                            | 7.6                                                                  | 37700                                                        | 27.5                                            | 15.0                                        |
| 21... | 0650 | 1.2                                            | 7.6                                                                  | 38100                                                        | 27.5                                            | 20.0                                        |

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

## 302528088304400 ESCATAWPA RIVER AT MI 4

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1535 | 4.7                                            | 7.3                                                                  | 18700                                                        | 28.5                                            | 1.00                                        |
| 20... | 1536 | 3.6                                            | 7.2                                                                  | 21300                                                        | 28.5                                            | 5.00                                        |
| 20... | 1537 | .6                                             | 7.5                                                                  | 36000                                                        | 28.0                                            | 10.0                                        |
| 20... | 1538 | .2                                             | 7.6                                                                  | 38600                                                        | 28.0                                            | 15.0                                        |
| 20... | 1539 | .2                                             | 7.6                                                                  | 39700                                                        | 28.0                                            | 20.0                                        |
| 20... | 1540 | .1                                             | 7.6                                                                  | 39900                                                        | 28.0                                            | 23.0                                        |
| 21... | 0638 | 3.6                                            | 7.5                                                                  | 24600                                                        | 28.0                                            | 1.00                                        |
| 21... | 0639 | 2.6                                            | 7.6                                                                  | 32400                                                        | 28.0                                            | 5.00                                        |
| 21... | 0640 | 2.0                                            | 7.6                                                                  | 36900                                                        | 27.5                                            | 10.0                                        |
| 21... | 0641 | 1.8                                            | 7.7                                                                  | 38600                                                        | 27.5                                            | 15.0                                        |
| 21... | 0642 | 1.8                                            | 7.7                                                                  | 39000                                                        | 27.5                                            | 20.0                                        |
| 21... | 0643 | 1.8                                            | 7.7                                                                  | 39200                                                        | 27.5                                            | 24.0                                        |

## 302455088313100 ESCATAWPA RIVER AT MI 3

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1528 | 3.9                                            | 7.4                                                                  | 21100                                                        | 28.5                                            | 1.00                                        |
| 20... | 1529 | 1.8                                            | 7.4                                                                  | 29100                                                        | 28.0                                            | 5.00                                        |
| 20... | 1530 | .7                                             | 7.6                                                                  | 38800                                                        | 28.0                                            | 10.0                                        |
| 20... | 1531 | .1                                             | 7.7                                                                  | 42000                                                        | 28.0                                            | 15.0                                        |
| 20... | 1532 | .1                                             | 7.8                                                                  | 44100                                                        | 28.5                                            | 20.0                                        |
| 20... | 1533 | .1                                             | 7.7                                                                  | 44600                                                        | 28.5                                            | 22.0                                        |
| 21... | 0630 | 4.4                                            | 7.3                                                                  | 22300                                                        | 28.0                                            | 1.00                                        |
| 21... | 0631 | 1.9                                            | 7.6                                                                  | 35700                                                        | 27.5                                            | 5.00                                        |
| 21... | 0632 | 1.6                                            | 7.7                                                                  | 39500                                                        | 27.5                                            | 10.0                                        |
| 21... | 0633 | 1.1                                            | 7.7                                                                  | 40600                                                        | 27.5                                            | 15.0                                        |
| 21... | 0634 | .3                                             | 7.6                                                                  | 42300                                                        | 28.0                                            | 20.0                                        |
| 21... | 0635 | .1                                             | 7.6                                                                  | 44600                                                        | 28.5                                            | 25.0                                        |
| 21... | 0636 | .1                                             | 7.6                                                                  | 44800                                                        | 28.5                                            | 26.0                                        |

## 302459088320800 ESCATAWPA RIVER AT MI 2

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1519 | 7.2                                            | 7.8                                                                  | 21600                                                        | 29.5                                            | 1.00                                        |
| 20... | 1520 | 2.0                                            | 7.5                                                                  | 29500                                                        | 28.5                                            | 5.00                                        |
| 20... | 1521 | 1.0                                            | 7.6                                                                  | 37200                                                        | 28.0                                            | 10.0                                        |
| 20... | 1522 | 1.1                                            | 7.8                                                                  | 40400                                                        | 27.5                                            | 15.0                                        |
| 20... | 1523 | 1.0                                            | 7.8                                                                  | 42600                                                        | 27.5                                            | 17.0                                        |
| 21... | 0613 | 5.8                                            | 7.5                                                                  | 23100                                                        | 28.0                                            | 1.00                                        |
| 21... | 0614 | 2.6                                            | 7.6                                                                  | 35700                                                        | 27.5                                            | 5.00                                        |
| 21... | 0615 | 2.4                                            | 7.8                                                                  | 40000                                                        | 27.0                                            | 10.0                                        |
| 21... | 0616 | 3.5                                            | 7.9                                                                  | 40900                                                        | 27.0                                            | 15.0                                        |
| 21... | 0617 | 4.6                                            | 7.9                                                                  | 41900                                                        | 27.0                                            | 20.0                                        |
| 21... | 0618 | 3.8                                            | 7.9                                                                  | 41900                                                        | 27.0                                            | 22.0                                        |

## 02480207 ESCATAWPA RIVER AT MOSS POINT, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1500 | 7.1                                            | 7.9                                                                  | 20700                                                        | 29.0                                            | 1.00                                        |
| 20... | 1501 | 3.7                                            | 7.7                                                                  | 29100                                                        | 28.5                                            | 5.00                                        |
| 20... | 1502 | 1.4                                            | 7.8                                                                  | 40200                                                        | 27.5                                            | 10.0                                        |
| 20... | 1503 | 1.3                                            | 7.8                                                                  | 40600                                                        | 27.5                                            | 15.0                                        |
| 20... | 1504 | 1.6                                            | 7.9                                                                  | 42700                                                        | 27.5                                            | 20.0                                        |
| 20... | 1505 | 1.9                                            | 7.9                                                                  | 43000                                                        | 27.0                                            | 23.0                                        |
| 21... | 0604 | 6.6                                            | 7.7                                                                  | 22000                                                        | 28.0                                            | 1.00                                        |
| 21... | 0605 | 4.5                                            | 7.8                                                                  | 36400                                                        | 27.5                                            | 5.00                                        |
| 21... | 0606 | 4.0                                            | 7.9                                                                  | 41500                                                        | 27.0                                            | 10.0                                        |
| 21... | 0607 | 3.9                                            | 8.0                                                                  | 43800                                                        | 27.0                                            | 15.0                                        |
| 21... | 0608 | 3.9                                            | 8.0                                                                  | 44200                                                        | 27.0                                            | 20.0                                        |
| 21... | 0609 | 4.2                                            | 8.0                                                                  | 44300                                                        | 27.0                                            | 25.0                                        |
| 21... | 0610 | 4.1                                            | 8.0                                                                  | 44300                                                        | 27.0                                            | 28.0                                        |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

## 02480208 ESCATAWPA RIVER AT MI 0 NR ESCATAWPA, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1450 | 7.2                                            | 8.0                                                                  | 21500                                                        | 29.0                                            | 1.00                                        |
| 20... | 1451 | 3.6                                            | 7.8                                                                  | 29500                                                        | 27.5                                            | 5.00                                        |
| 20... | 1452 | 1.7                                            | 7.8                                                                  | 39100                                                        | 27.5                                            | 10.0                                        |
| 20... | 1453 | 2.2                                            | 7.9                                                                  | 42100                                                        | 27.0                                            | 15.0                                        |
| 20... | 1454 | 2.2                                            | 8.0                                                                  | 42300                                                        | 27.0                                            | 20.0                                        |
| 20... | 1455 | 2.1                                            | 8.0                                                                  | 42400                                                        | 27.0                                            | 24.0                                        |
| 21... | 0553 | 4.9                                            | 7.6                                                                  | 31000                                                        | 28.0                                            | 1.00                                        |
| 21... | 0554 | 4.4                                            | 7.8                                                                  | 41100                                                        | 27.5                                            | 5.00                                        |
| 21... | 0555 | 4.6                                            | 8.0                                                                  | 44000                                                        | 27.0                                            | 10.0                                        |
| 21... | 0556 | 5.0                                            | 8.0                                                                  | 44600                                                        | 27.0                                            | 15.0                                        |
| 21... | 0557 | 4.7                                            | 8.0                                                                  | 44800                                                        | 27.0                                            | 20.0                                        |
| 21... | 0558 | 4.6                                            | 8.0                                                                  | 44800                                                        | 27.0                                            | 25.0                                        |

## 302507088342800 PASCAGOULA RIVER AT MI 6

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1506 | 7.0                                            | 8.0                                                                  | 24400                                                        | 29.0                                            | 1.00                                        |
| 20... | 1507 | 4.2                                            | 7.8                                                                  | 36300                                                        | 27.5                                            | 5.00                                        |
| 20... | 1508 | 2.5                                            | 7.9                                                                  | 38700                                                        | 27.5                                            | 8.00                                        |
| 21... | 0655 | 5.6                                            | 7.8                                                                  | 31400                                                        | 27.5                                            | 1.00                                        |
| 21... | 0656 | 4.8                                            | 8.0                                                                  | 43500                                                        | 27.5                                            | 5.00                                        |
| 21... | 0657 | 4.6                                            | 8.0                                                                  | 45000                                                        | 27.5                                            | 10.0                                        |

## 302430088350400 PASCAGOULA RIVER AT MI 5

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1500 | 6.7                                            | 8.0                                                                  | 24100                                                        | 28.5                                            | 1.00                                        |
| 20... | 1501 | 4.1                                            | 7.9                                                                  | 30100                                                        | 27.5                                            | 5.00                                        |
| 20... | 1502 | 3.3                                            | 8.0                                                                  | 39200                                                        | 27.0                                            | 10.0                                        |
| 20... | 1503 | 2.9                                            | 8.0                                                                  | 39200                                                        | 27.0                                            | 11.0                                        |
| 21... | 0645 | 5.2                                            | 7.8                                                                  | 37800                                                        | 27.0                                            | 1.00                                        |
| 21... | 0646 | 5.0                                            | 8.0                                                                  | 45400                                                        | 27.5                                            | 5.00                                        |
| 21... | 0647 | 5.1                                            | 8.0                                                                  | 45600                                                        | 27.5                                            | 10.0                                        |
| 21... | 0648 | 5.0                                            | 8.0                                                                  | 45700                                                        | 27.5                                            | 12.0                                        |

## 302345088343800 PASCAGOULA RIVER AT MI 4

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1450 | 6.0                                            | 8.0                                                                  | 26900                                                        | 28.5                                            | 1.00                                        |
| 20... | 1451 | 3.9                                            | 8.0                                                                  | 33700                                                        | 27.5                                            | 5.00                                        |
| 20... | 1452 | 3.5                                            | 8.1                                                                  | 38600                                                        | 27.0                                            | 10.0                                        |
| 20... | 1453 | 3.5                                            | 8.2                                                                  | 40300                                                        | 27.0                                            | 15.0                                        |
| 20... | 1454 | 3.4                                            | 8.2                                                                  | 41900                                                        | 27.0                                            | 18.0                                        |
| 21... | 0630 | 5.2                                            | 7.9                                                                  | 41200                                                        | 27.5                                            | 1.00                                        |
| 21... | 0631 | 5.2                                            | 7.9                                                                  | 42800                                                        | 27.5                                            | 5.00                                        |
| 21... | 0632 | 5.9                                            | 8.1                                                                  | 46000                                                        | 27.5                                            | 10.0                                        |
| 21... | 0633 | 5.1                                            | 8.0                                                                  | 46200                                                        | 27.5                                            | 15.0                                        |
| 21... | 0634 | 5.1                                            | 8.0                                                                  | 46200                                                        | 27.5                                            | 17.0                                        |

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

302319088335400 PASCAGOULA RIVER AT MI 3

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1435 | 6.2                                            | 8.1                                                                  | 28700                                                        | 28.5                                            | 1.00                                        |
| 20... | 1436 | 4.3                                            | 8.1                                                                  | 34000                                                        | 29.0                                            | 5.00                                        |
| 20... | 1437 | 3.9                                            | 8.2                                                                  | 38100                                                        | 27.0                                            | 10.0                                        |
| 20... | 1438 | 4.0                                            | 8.2                                                                  | 41500                                                        | 27.0                                            | 15.0                                        |
| 20... | 1439 | 4.0                                            | 8.3                                                                  | 41800                                                        | 27.0                                            | 20.0                                        |
| 20... | 1440 | 4.0                                            | 8.3                                                                  | 42100                                                        | 27.0                                            | 25.0                                        |
| 20... | 1441 | 4.0                                            | 8.3                                                                  | 42500                                                        | 27.0                                            | 28.0                                        |
| 21... | 0620 | 5.4                                            | 8.0                                                                  | 44200                                                        | 27.5                                            | 1.00                                        |
| 21... | 0621 | 5.5                                            | 8.0                                                                  | 45500                                                        | 27.5                                            | 5.00                                        |
| 21... | 0622 | 5.5                                            | 8.1                                                                  | 46400                                                        | 27.5                                            | 10.0                                        |
| 21... | 0623 | 5.6                                            | 8.1                                                                  | 46300                                                        | 27.5                                            | 15.0                                        |
| 21... | 0624 | 5.4                                            | 8.0                                                                  | 46200                                                        | 27.5                                            | 20.0                                        |
| 21... | 0625 | 5.5                                            | 8.1                                                                  | 46400                                                        | 27.5                                            | 25.0                                        |
| 21... | 0626 | 5.7                                            | 8.1                                                                  | 46400                                                        | 27.5                                            | 30.0                                        |

02480210 PASCAGOULA RIVER AT HWY 90 AT PASCAGOULA, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1420 | 5.7                                            | 8.2                                                                  | 34300                                                        | 28.0                                            | 1.00                                        |
| 20... | 1421 | 5.5                                            | 8.2                                                                  | 35000                                                        | 28.0                                            | 5.00                                        |
| 20... | 1422 | 4.6                                            | 8.2                                                                  | 39300                                                        | 27.5                                            | 10.0                                        |
| 20... | 1423 | 4.2                                            | 8.3                                                                  | 43500                                                        | 27.0                                            | 15.0                                        |
| 20... | 1424 | 4.3                                            | 8.4                                                                  | 45300                                                        | 27.0                                            | 20.0                                        |
| 21... | 0605 | 5.3                                            | 8.0                                                                  | 45800                                                        | 27.5                                            | 1.00                                        |
| 21... | 0606 | 5.4                                            | 8.1                                                                  | 46100                                                        | 27.5                                            | 5.00                                        |
| 21... | 0607 | 5.3                                            | 8.1                                                                  | 46500                                                        | 27.5                                            | 10.0                                        |
| 21... | 0608 | 5.6                                            | 8.1                                                                  | 46600                                                        | 27.5                                            | 15.0                                        |
| 21... | 0609 | 5.5                                            | 8.1                                                                  | 46700                                                        | 27.5                                            | 20.0                                        |
| 21... | 0610 | 5.2                                            | 8.1                                                                  | 46900                                                        | 27.5                                            | 25.0                                        |
| 21... | 0611 | 5.1                                            | 8.1                                                                  | 46900                                                        | 27.5                                            | 27.0                                        |

02480212 PASCAGOULA RIVER AT MI 1 AT PASCAGOULA, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1400 | 5.3                                            | 8.2                                                                  | 36800                                                        | 28.0                                            | 1.00                                        |
| 20... | 1401 | 5.3                                            | 8.2                                                                  | 38600                                                        | 27.5                                            | 5.00                                        |
| 20... | 1402 | 4.6                                            | 8.3                                                                  | 41600                                                        | 27.0                                            | 10.0                                        |
| 20... | 1403 | 4.6                                            | 8.3                                                                  | 43700                                                        | 27.0                                            | 15.0                                        |
| 20... | 1404 | 4.6                                            | 8.4                                                                  | 45600                                                        | 27.0                                            | 20.0                                        |
| 20... | 1405 | 4.6                                            | 8.4                                                                  | 45800                                                        | 27.0                                            | 25.0                                        |
| 20... | 1406 | 4.6                                            | 8.4                                                                  | 46600                                                        | 27.0                                            | 30.0                                        |
| 20... | 1407 | 4.6                                            | 8.4                                                                  | 47600                                                        | 27.0                                            | 35.0                                        |
| 20... | 1408 | 4.5                                            | 8.4                                                                  | 47800                                                        | 26.5                                            | 40.0                                        |
| 20... | 1409 | 4.5                                            | 8.4                                                                  | 47800                                                        | 26.5                                            | 42.0                                        |
| 21... | 0550 | 5.6                                            | 7.8                                                                  | 42600                                                        | 27.5                                            | 1.00                                        |
| 21... | 0551 | 6.2                                            | 8.0                                                                  | 46000                                                        | 28.0                                            | 5.00                                        |
| 21... | 0552 | 6.3                                            | 8.0                                                                  | 46400                                                        | 27.5                                            | 10.0                                        |
| 21... | 0553 | 6.3                                            | 8.0                                                                  | 46600                                                        | 27.5                                            | 15.0                                        |
| 21... | 0554 | 6.1                                            | 8.0                                                                  | 46800                                                        | 27.5                                            | 20.0                                        |
| 21... | 0555 | 5.9                                            | 8.0                                                                  | 47000                                                        | 27.5                                            | 25.0                                        |
| 21... | 0556 | 5.2                                            | 7.7                                                                  | 47300                                                        | 27.0                                            | 30.0                                        |
| 21... | 0557 | 4.4                                            | 7.9                                                                  | 47300                                                        | 27.0                                            | 35.0                                        |
| 21... | 0558 | 4.2                                            | 7.9                                                                  | 47500                                                        | 27.0                                            | 40.0                                        |
| 21... | 0559 | 3.8                                            | 7.9                                                                  | 47400                                                        | 26.5                                            | 44.0                                        |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02480215 PASCAGOULA RIVER AT MI 0 AT PASCAGOULA, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                             |
| 20... | 1345 | 5.0                                            | 8.2                                                                  | 40800                                                        | 27.5                                            | 1.00                                        |
| 20... | 1346 | 4.6                                            | 8.4                                                                  | 42800                                                        | 27.0                                            | 5.00                                        |
| 20... | 1347 | 4.7                                            | 8.6                                                                  | 43500                                                        | 27.0                                            | 10.0                                        |
| 20... | 1348 | 4.8                                            | 8.6                                                                  | 45100                                                        | 27.0                                            | 15.0                                        |
| 20... | 1349 | 5.0                                            | 8.7                                                                  | 46900                                                        | 27.0                                            | 20.0                                        |
| 20... | 1350 | 5.1                                            | 8.7                                                                  | 47000                                                        | 27.0                                            | 25.0                                        |
| 20... | 1351 | 5.2                                            | 8.7                                                                  | 47400                                                        | 27.0                                            | 30.0                                        |
| 20... | 1352 | 4.3                                            | 8.6                                                                  | 48000                                                        | 26.5                                            | 35.0                                        |
| 20... | 1353 | 3.7                                            | 8.6                                                                  | 48400                                                        | 26.5                                            | 40.0                                        |
| 20... | 1354 | 3.5                                            | 8.6                                                                  | 48900                                                        | 26.5                                            | 42.0                                        |
| 21... | 0535 | 6.6                                            | 7.6                                                                  | 45400                                                        | 28.0                                            | 1.00                                        |
| 21... | 0536 | 6.3                                            | 7.9                                                                  | 45800                                                        | 28.0                                            | 5.00                                        |
| 21... | 0537 | 6.2                                            | 7.9                                                                  | 46200                                                        | 27.5                                            | 10.0                                        |
| 21... | 0538 | 5.9                                            | 7.9                                                                  | 46600                                                        | 27.5                                            | 15.0                                        |
| 21... | 0539 | 5.8                                            | 7.9                                                                  | 46400                                                        | 27.5                                            | 20.0                                        |
| 21... | 0540 | 5.6                                            | 7.9                                                                  | 46800                                                        | 27.0                                            | 25.0                                        |
| 21... | 0541 | 4.8                                            | 7.9                                                                  | 47100                                                        | 27.0                                            | 30.0                                        |
| 21... | 0542 | 4.2                                            | 7.8                                                                  | 47900                                                        | 26.5                                            | 35.0                                        |
| 21... | 0543 | 4.1                                            | 7.8                                                                  | 48200                                                        | 26.5                                            | 40.0                                        |
| 21... | 0544 | 4.0                                            | 7.9                                                                  | 48200                                                        | 26.5                                            | 44.0                                        |

## PASCAGOULA RIVER TIDAL CYCLE STUDY

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02480210 PASCAGOULA RIVER AT HWY 90 AT PASCAGOULA, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 20... | 1256 | 5.8                                            | 7.5                                                                  | 33100                                                        | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 20... | 1257 | 4.8                                            | 7.6                                                                  | 36900                                                        | 27.0                                            | 25.0                                                                               | 3.00                                        |
| 20... | 1258 | 4.4                                            | 7.7                                                                  | 40400                                                        | 27.0                                            | 25.0                                                                               | 6.00                                        |
| 20... | 1259 | 4.4                                            | 7.8                                                                  | 41200                                                        | 26.5                                            | 25.0                                                                               | 9.00                                        |
| 20... | 1300 | 4.3                                            | 7.8                                                                  | 42600                                                        | 27.0                                            | 25.0                                                                               | 12.0                                        |
| 20... | 1301 | 4.2                                            | 7.8                                                                  | 43400                                                        | 26.5                                            | 25.0                                                                               | 15.0                                        |
| 20... | 1302 | 4.2                                            | 7.8                                                                  | 43700                                                        | 26.5                                            | 25.0                                                                               | 18.0                                        |
| 20... | 1303 | 4.1                                            | 7.9                                                                  | 43700                                                        | 26.5                                            | 25.0                                                                               | 20.0                                        |
| 20... | 1308 | 5.5                                            | 7.9                                                                  | 33800                                                        | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 20... | 1309 | 5.2                                            | 7.9                                                                  | 35600                                                        | 27.5                                            | 50.0                                                                               | 3.00                                        |
| 20... | 1310 | 5.2                                            | 7.9                                                                  | 36200                                                        | 27.5                                            | 50.0                                                                               | 6.00                                        |
| 20... | 1311 | 5.1                                            | 7.9                                                                  | 37600                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 20... | 1312 | 4.6                                            | 7.8                                                                  | 42500                                                        | 27.0                                            | 50.0                                                                               | 12.0                                        |
| 20... | 1313 | 4.3                                            | 7.9                                                                  | 43000                                                        | 27.0                                            | 50.0                                                                               | 15.0                                        |
| 20... | 1314 | 4.1                                            | 7.9                                                                  | 43700                                                        | 27.0                                            | 50.0                                                                               | 17.0                                        |
| 20... | 1316 | 5.4                                            | 7.9                                                                  | 34000                                                        | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 20... | 1317 | 5.3                                            | 7.9                                                                  | 34800                                                        | 27.5                                            | 75.0                                                                               | 3.00                                        |
| 20... | 1318 | 5.2                                            | 7.9                                                                  | 35600                                                        | 27.5                                            | 75.0                                                                               | 6.00                                        |
| 20... | 1319 | 5.2                                            | 7.9                                                                  | 36000                                                        | 27.5                                            | 75.0                                                                               | 9.00                                        |
| 20... | 1320 | 4.4                                            | 7.9                                                                  | 42800                                                        | 27.0                                            | 75.0                                                                               | 12.0                                        |
| 20... | 1321 | 4.0                                            | 7.9                                                                  | 43600                                                        | 27.0                                            | 75.0                                                                               | 15.0                                        |
| 20... | 1322 | 4.0                                            | 7.9                                                                  | 43200                                                        | 27.0                                            | 75.0                                                                               | 16.0                                        |
| 20... | 1437 | 6.0                                            | 7.9                                                                  | 33900                                                        | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 20... | 1438 | 5.4                                            | 7.9                                                                  | 36300                                                        | 27.5                                            | 25.0                                                                               | 3.00                                        |
| 20... | 1439 | 5.0                                            | 7.9                                                                  | 38100                                                        | 27.5                                            | 25.0                                                                               | 6.00                                        |
| 20... | 1440 | 4.8                                            | 7.9                                                                  | 39000                                                        | 27.0                                            | 25.0                                                                               | 9.00                                        |
| 20... | 1441 | 4.5                                            | 7.9                                                                  | 41200                                                        | 27.0                                            | 25.0                                                                               | 12.0                                        |
| 20... | 1442 | 3.9                                            | 7.9                                                                  | 42800                                                        | 27.0                                            | 25.0                                                                               | 15.0                                        |
| 20... | 1443 | 4.0                                            | 7.9                                                                  | 42900                                                        | 27.0                                            | 25.0                                                                               | 18.0                                        |
| 20... | 1444 | 4.1                                            | 7.9                                                                  | 43200                                                        | 27.0                                            | 25.0                                                                               | 21.0                                        |
| 20... | 1445 | 3.9                                            | 8.0                                                                  | 43500                                                        | 27.0                                            | 25.0                                                                               | 24.0                                        |
| 20... | 1447 | 5.8                                            | 8.0                                                                  | 33900                                                        | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 20... | 1448 | 5.2                                            | 8.0                                                                  | 35200                                                        | 27.5                                            | 50.0                                                                               | 3.00                                        |
| 20... | 1449 | 4.8                                            | 8.0                                                                  | 38800                                                        | 27.0                                            | 50.0                                                                               | 6.00                                        |
| 20... | 1450 | 4.7                                            | 8.0                                                                  | 40200                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 20... | 1451 | 4.4                                            | 8.0                                                                  | 41600                                                        | 27.0                                            | 50.0                                                                               | 12.0                                        |
| 20... | 1452 | 4.3                                            | 8.0                                                                  | 42100                                                        | 27.0                                            | 50.0                                                                               | 15.0                                        |
| 20... | 1453 | 4.3                                            | 8.0                                                                  | 42300                                                        | 27.0                                            | 50.0                                                                               | 16.0                                        |
| 20... | 1454 | 6.2                                            | 8.0                                                                  | 33200                                                        | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 20... | 1455 | 5.4                                            | 8.0                                                                  | 35200                                                        | 27.5                                            | 75.0                                                                               | 3.00                                        |
| 20... | 1456 | 4.9                                            | 8.0                                                                  | 38600                                                        | 27.5                                            | 75.0                                                                               | 6.00                                        |
| 20... | 1457 | 4.5                                            | 8.0                                                                  | 40400                                                        | 27.0                                            | 75.0                                                                               | 9.00                                        |
| 20... | 1458 | 4.4                                            | 8.0                                                                  | 40900                                                        | 27.0                                            | 75.0                                                                               | 11.0                                        |
| 20... | 1607 | 6.9                                            | 8.1                                                                  | 35000                                                        | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 20... | 1608 | 5.3                                            | 8.1                                                                  | 37200                                                        | 27.5                                            | 25.0                                                                               | 3.00                                        |
| 20... | 1609 | 4.8                                            | 8.1                                                                  | 39800                                                        | 27.0                                            | 25.0                                                                               | 6.00                                        |
| 20... | 1610 | 4.7                                            | 8.0                                                                  | 40900                                                        | 27.0                                            | 25.0                                                                               | 9.00                                        |
| 20... | 1611 | 4.6                                            | 8.0                                                                  | 43800                                                        | 27.0                                            | 25.0                                                                               | 12.0                                        |
| 20... | 1612 | 4.4                                            | 8.1                                                                  | 45400                                                        | 26.5                                            | 25.0                                                                               | 15.0                                        |
| 20... | 1613 | 4.4                                            | 8.1                                                                  | 46500                                                        | 26.5                                            | 25.0                                                                               | 18.0                                        |
| 20... | 1614 | 4.3                                            | 8.1                                                                  | 46300                                                        | 26.5                                            | 25.0                                                                               | 20.0                                        |
| 20... | 1616 | 6.5                                            | 8.1                                                                  | 35400                                                        | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 20... | 1617 | 6.1                                            | 8.1                                                                  | 35500                                                        | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 20... | 1618 | 4.7                                            | 8.1                                                                  | 40200                                                        | 27.0                                            | 50.0                                                                               | 6.00                                        |
| 20... | 1619 | 4.4                                            | 8.1                                                                  | 43200                                                        | 26.5                                            | 50.0                                                                               | 9.00                                        |
| 20... | 1620 | 4.3                                            | 8.1                                                                  | 44800                                                        | 26.5                                            | 50.0                                                                               | 12.0                                        |
| 20... | 1622 | 6.8                                            | 8.1                                                                  | 35100                                                        | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 20... | 1623 | 6.6                                            | 8.1                                                                  | 35200                                                        | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 20... | 1624 | 4.8                                            | 8.1                                                                  | 40700                                                        | 27.0                                            | 75.0                                                                               | 6.00                                        |
| 20... | 1625 | 3.8                                            | 8.0                                                                  | 43000                                                        | 27.0                                            | 75.0                                                                               | 9.00                                        |
| 20... | 1735 | 6.8                                            | 8.0                                                                  | 37300                                                        | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 20... | 1736 | 6.4                                            | 8.0                                                                  | 38100                                                        | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 20... | 1737 | 5.1                                            | 8.0                                                                  | 40900                                                        | 27.0                                            | 25.0                                                                               | 6.00                                        |
| 20... | 1738 | 4.7                                            | 8.0                                                                  | 45500                                                        | 26.5                                            | 25.0                                                                               | 9.00                                        |
| 20... | 1739 | 4.5                                            | 8.0                                                                  | 46900                                                        | 26.5                                            | 25.0                                                                               | 12.0                                        |
| 20... | 1740 | 4.4                                            | 8.1                                                                  | 46900                                                        | 26.5                                            | 25.0                                                                               | 15.0                                        |
| 20... | 1741 | 4.4                                            | 8.1                                                                  | 46900                                                        | 26.5                                            | 25.0                                                                               | 18.0                                        |
| 20... | 1742 | 4.4                                            | 8.1                                                                  | 46900                                                        | 26.5                                            | 25.0                                                                               | 21.0                                        |
| 20... | 1743 | 4.4                                            | 8.1                                                                  | 46900                                                        | 26.5                                            | 25.0                                                                               | 24.0                                        |
| 20... | 1745 | 6.8                                            | 8.2                                                                  | 37000                                                        | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 20... | 1746 | 6.7                                            | 8.2                                                                  | 37600                                                        | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 20... | 1747 | 5.1                                            | 8.1                                                                  | 43000                                                        | 27.0                                            | 50.0                                                                               | 6.00                                        |
| 20... | 1748 | 4.8                                            | 8.1                                                                  | 45100                                                        | 26.5                                            | 50.0                                                                               | 9.00                                        |
| 20... | 1749 | 4.5                                            | 8.1                                                                  | 46500                                                        | 26.5                                            | 50.0                                                                               | 12.0                                        |
| 20... | 1750 | 4.4                                            | 8.1                                                                  | 46800                                                        | 26.5                                            | 50.0                                                                               | 15.0                                        |
| 20... | 1751 | 4.3                                            | 8.1                                                                  | 46800                                                        | 26.5                                            | 50.0                                                                               | 16.0                                        |
| 20... | 1754 | 6.5                                            | 8.2                                                                  | 36500                                                        | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 20... | 1755 | 6.3                                            | 8.2                                                                  | 37800                                                        | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 20... | 1756 | 4.8                                            | 8.1                                                                  | 43800                                                        | 27.0                                            | 75.0                                                                               | 6.00                                        |
| 20... | 1757 | 4.3                                            | 8.1                                                                  | 46100                                                        | 26.5                                            | 75.0                                                                               | 9.00                                        |
| 20... | 1758 | 4.3                                            | 8.1                                                                  | 46700                                                        | 26.5                                            | 75.0                                                                               | 12.0                                        |
| 20... | 1927 | 5.5                                            | 8.2                                                                  | 39000                                                        | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 20... | 1928 | 5.3                                            | 8.2                                                                  | 41400                                                        | 27.5                                            | 25.0                                                                               | 3.00                                        |
| 20... | 1929 | 4.9                                            | 8.2                                                                  | 44900                                                        | 27.0                                            | 25.0                                                                               | 6.00                                        |
| 20... | 1930 | 4.5                                            | 8.2                                                                  | 46900                                                        | 26.5                                            | 25.0                                                                               | 9.00                                        |
| 20... | 1931 | 4.4                                            | 8.2                                                                  | 47300                                                        | 26.5                                            | 25.0                                                                               | 12.0                                        |
| 20... | 1932 | 4.4                                            | 8.2                                                                  | 47400                                                        | 26.5                                            | 25.0                                                                               | 15.0                                        |
| 20... | 1933 | 4.4                                            | 8.2                                                                  | 47400                                                        | 26.5                                            | 25.0                                                                               | 18.0                                        |
| 20... | 1934 | 4.4                                            | 8.2                                                                  | 47400                                                        | 26.5                                            | 25.0                                                                               | 21.0                                        |
| 20... | 1935 | 4.4                                            | 8.2                                                                  | 47400                                                        | 26.5                                            | 25.0                                                                               | 24.0                                        |
| 20... | 1936 | 4.4                                            | 8.2                                                                  | 47600                                                        | 26.5                                            | 25.0                                                                               | 25.0                                        |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## PASCAGOULA RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02480210 PASCAGOULA RIVER AT HWY 90 AT PASCAGOULA, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 20... | 1941 | 5.4                                            | 8.2                                                                  | 41500                                                        | 27.0                                            | 50.0                                                                               | 1.00                                        |
| 20... | 1942 | 5.3                                            | 8.2                                                                  | 42500                                                        | 27.0                                            | 50.0                                                                               | 3.00                                        |
| 20... | 1943 | 4.9                                            | 8.2                                                                  | 45500                                                        | 27.0                                            | 50.0                                                                               | 6.00                                        |
| 20... | 1944 | 4.6                                            | 8.2                                                                  | 46600                                                        | 26.5                                            | 50.0                                                                               | 9.00                                        |
| 20... | 1945 | 4.4                                            | 8.2                                                                  | 47000                                                        | 26.5                                            | 50.0                                                                               | 12.0                                        |
| 20... | 1946 | 4.4                                            | 8.2                                                                  | 46900                                                        | 26.5                                            | 50.0                                                                               | 14.0                                        |
| 20... | 1948 | 5.1                                            | 8.2                                                                  | 41300                                                        | 27.0                                            | 75.0                                                                               | 1.00                                        |
| 20... | 1949 | 4.9                                            | 8.2                                                                  | 44900                                                        | 27.0                                            | 75.0                                                                               | 3.00                                        |
| 20... | 1950 | 4.7                                            | 8.2                                                                  | 45800                                                        | 26.5                                            | 75.0                                                                               | 6.00                                        |
| 20... | 1951 | 4.4                                            | 8.2                                                                  | 46500                                                        | 26.5                                            | 75.0                                                                               | 9.00                                        |
| 20... | 1952 | 4.4                                            | 8.2                                                                  | 46800                                                        | 26.5                                            | 75.0                                                                               | 12.0                                        |
| 20... | 2143 | 4.8                                            | 6.6                                                                  | 42900                                                        | 27.0                                            | 25.0                                                                               | 1.00                                        |
| 20... | 2144 | 4.8                                            | 6.8                                                                  | 44000                                                        | 27.0                                            | 25.0                                                                               | 3.00                                        |
| 20... | 2145 | 4.7                                            | 7.0                                                                  | 46200                                                        | 27.0                                            | 25.0                                                                               | 6.00                                        |
| 20... | 2146 | 4.7                                            | 7.2                                                                  | 46400                                                        | 27.0                                            | 25.0                                                                               | 9.00                                        |
| 20... | 2147 | 4.7                                            | 7.3                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 12.0                                        |
| 20... | 2148 | 4.7                                            | 7.4                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 15.0                                        |
| 20... | 2149 | 4.7                                            | 7.5                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 18.0                                        |
| 20... | 2150 | 4.7                                            | 7.6                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 19.0                                        |
| 20... | 2153 | 5.7                                            | 7.7                                                                  | 44200                                                        | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 20... | 2154 | 5.4                                            | 7.7                                                                  | 44000                                                        | 27.5                                            | 50.0                                                                               | 3.00                                        |
| 20... | 2155 | 5.3                                            | 7.7                                                                  | 45600                                                        | 27.5                                            | 50.0                                                                               | 6.00                                        |
| 20... | 2156 | 5.2                                            | 7.8                                                                  | 46200                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 20... | 2157 | 5.2                                            | 7.8                                                                  | 46200                                                        | 27.0                                            | 50.0                                                                               | 12.0                                        |
| 20... | 2158 | 5.0                                            | 7.8                                                                  | 46300                                                        | 27.0                                            | 50.0                                                                               | 15.0                                        |
| 20... | 2159 | 5.0                                            | 7.9                                                                  | 46300                                                        | 27.0                                            | 50.0                                                                               | 17.0                                        |
| 20... | 2203 | 5.4                                            | 7.9                                                                  | 44200                                                        | 27.0                                            | 75.0                                                                               | 1.00                                        |
| 20... | 2204 | 5.1                                            | 7.9                                                                  | 44700                                                        | 27.0                                            | 75.0                                                                               | 3.00                                        |
| 20... | 2205 | 5.0                                            | 8.0                                                                  | 45500                                                        | 27.0                                            | 75.0                                                                               | 6.00                                        |
| 20... | 2206 | 4.8                                            | 8.0                                                                  | 45900                                                        | 27.0                                            | 75.0                                                                               | 9.00                                        |
| 20... | 2207 | 4.8                                            | 8.0                                                                  | 46000                                                        | 27.0                                            | 75.0                                                                               | 12.0                                        |
| 20... | 2208 | 4.7                                            | 8.0                                                                  | 46100                                                        | 27.0                                            | 75.0                                                                               | 13.0                                        |
| 20... | 2303 | 5.7                                            | 8.0                                                                  | 45000                                                        | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 20... | 2304 | 5.2                                            | 8.0                                                                  | 45000                                                        | 27.0                                            | 25.0                                                                               | 3.00                                        |
| 20... | 2305 | 5.1                                            | 8.0                                                                  | 46100                                                        | 27.0                                            | 25.0                                                                               | 6.00                                        |
| 20... | 2306 | 5.1                                            | 8.0                                                                  | 46400                                                        | 27.0                                            | 25.0                                                                               | 9.00                                        |
| 20... | 2307 | 5.0                                            | 8.0                                                                  | 46700                                                        | 27.0                                            | 25.0                                                                               | 12.0                                        |
| 20... | 2308 | 5.0                                            | 8.0                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 15.0                                        |
| 20... | 2309 | 4.9                                            | 8.1                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 18.0                                        |
| 20... | 2310 | 5.0                                            | 8.1                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 21.0                                        |
| 20... | 2311 | 5.0                                            | 8.1                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 22.0                                        |
| 20... | 2313 | 5.9                                            | 8.1                                                                  | 44800                                                        | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 20... | 2314 | 5.8                                            | 8.1                                                                  | 45100                                                        | 27.5                                            | 50.0                                                                               | 3.00                                        |
| 20... | 2315 | 5.6                                            | 8.1                                                                  | 46100                                                        | 27.5                                            | 50.0                                                                               | 6.00                                        |
| 20... | 2316 | 5.6                                            | 8.1                                                                  | 46000                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 20... | 2317 | 5.5                                            | 8.1                                                                  | 46100                                                        | 27.5                                            | 50.0                                                                               | 12.0                                        |
| 20... | 2318 | 5.5                                            | 8.1                                                                  | 46400                                                        | 27.5                                            | 50.0                                                                               | 15.0                                        |
| 20... | 2319 | 5.4                                            | 8.1                                                                  | 46300                                                        | 27.5                                            | 50.0                                                                               | 17.0                                        |
| 20... | 2322 | 5.7                                            | 8.1                                                                  | 44900                                                        | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 20... | 2323 | 5.5                                            | 8.1                                                                  | 45100                                                        | 27.5                                            | 75.0                                                                               | 3.00                                        |
| 20... | 2324 | 5.1                                            | 8.1                                                                  | 45400                                                        | 27.0                                            | 75.0                                                                               | 6.00                                        |
| 20... | 2325 | 4.9                                            | 8.1                                                                  | 45500                                                        | 27.0                                            | 75.0                                                                               | 9.00                                        |
| 20... | 2326 | 5.0                                            | 8.1                                                                  | 45400                                                        | 27.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0028 | 5.5                                            | 8.0                                                                  | 45400                                                        | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0029 | 5.4                                            | 8.0                                                                  | 45600                                                        | 27.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0030 | 5.3                                            | 8.0                                                                  | 46100                                                        | 27.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0031 | 5.2                                            | 8.1                                                                  | 46400                                                        | 27.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0032 | 5.2                                            | 8.1                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 12.0                                        |
| 21... | 0033 | 5.2                                            | 8.1                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 15.0                                        |
| 21... | 0034 | 5.1                                            | 8.1                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 18.0                                        |
| 21... | 0035 | 5.1                                            | 8.1                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 20.0                                        |
| 21... | 0039 | 6.0                                            | 8.1                                                                  | 45200                                                        | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 0040 | 5.9                                            | 8.1                                                                  | 45500                                                        | 27.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 0041 | 5.8                                            | 8.1                                                                  | 46100                                                        | 27.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 0042 | 5.6                                            | 8.1                                                                  | 46400                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 0043 | 5.6                                            | 8.1                                                                  | 46400                                                        | 27.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 0044 | 5.6                                            | 8.2                                                                  | 46400                                                        | 27.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 0045 | 5.6                                            | 8.2                                                                  | 46500                                                        | 27.5                                            | 50.0                                                                               | 16.0                                        |
| 21... | 0049 | 5.6                                            | 8.2                                                                  | 45300                                                        | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0050 | 5.7                                            | 8.2                                                                  | 45300                                                        | 27.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0051 | 5.7                                            | 8.2                                                                  | 45500                                                        | 27.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0052 | 5.6                                            | 8.2                                                                  | 45900                                                        | 27.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0053 | 5.5                                            | 8.2                                                                  | 46000                                                        | 27.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0206 | 5.8                                            | 8.0                                                                  | 45600                                                        | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0207 | 5.6                                            | 8.1                                                                  | 45800                                                        | 27.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0208 | 5.5                                            | 8.1                                                                  | 46200                                                        | 27.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0209 | 5.4                                            | 8.1                                                                  | 46700                                                        | 27.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0210 | 5.3                                            | 8.1                                                                  | 46700                                                        | 27.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 0211 | 5.2                                            | 8.1                                                                  | 46800                                                        | 27.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 0212 | 5.2                                            | 8.1                                                                  | 46700                                                        | 27.5                                            | 25.0                                                                               | 18.0                                        |
| 21... | 0213 | 5.2                                            | 8.1                                                                  | 46700                                                        | 27.0                                            | 25.0                                                                               | 21.0                                        |
| 21... | 0215 | 5.8                                            | 8.2                                                                  | 45500                                                        | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 0216 | 5.8                                            | 8.2                                                                  | 45800                                                        | 27.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 0217 | 5.7                                            | 8.2                                                                  | 46300                                                        | 27.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 0218 | 5.7                                            | 8.2                                                                  | 46300                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 0219 | 5.7                                            | 8.2                                                                  | 46300                                                        | 27.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 0220 | 5.7                                            | 8.2                                                                  | 46300                                                        | 27.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 0221 | 5.7                                            | 8.2                                                                  | 46200                                                        | 27.5                                            | 50.0                                                                               | 16.0                                        |
| 21... | 0223 | 5.8                                            | 8.2                                                                  | 45500                                                        | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0224 | 5.8                                            | 8.2                                                                  | 45800                                                        | 27.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0225 | 5.8                                            | 8.2                                                                  | 45800                                                        | 27.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0226 | 5.7                                            | 8.2                                                                  | 46000                                                        | 27.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0227 | 5.6                                            | 8.2                                                                  | 46000                                                        | 27.5                                            | 75.0                                                                               | 12.0                                        |

## PASCAGOULA RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02480210 PASCAGOULA RIVER AT HWY 90 AT PASCAGOULA, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 21... | 0333 | 5.4                                            | 8.1                                                                  | 46100                                                        | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0334 | 5.4                                            | 8.1                                                                  | 46100                                                        | 27.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0335 | 5.4                                            | 8.1                                                                  | 46300                                                        | 27.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0336 | 5.3                                            | 8.1                                                                  | 46300                                                        | 27.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0337 | 5.3                                            | 8.1                                                                  | 46800                                                        | 27.0                                            | 25.0                                                                               | 12.0                                        |
| 21... | 0338 | 5.2                                            | 8.1                                                                  | 46700                                                        | 27.0                                            | 25.0                                                                               | 15.0                                        |
| 21... | 0339 | 5.2                                            | 8.1                                                                  | 46700                                                        | 27.0                                            | 25.0                                                                               | 18.0                                        |
| 21... | 0340 | 5.1                                            | 8.1                                                                  | 46700                                                        | 27.0                                            | 25.0                                                                               | 19.0                                        |
| 21... | 0345 | 5.9                                            | 8.2                                                                  | 45600                                                        | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 0346 | 6.1                                            | 8.2                                                                  | 45700                                                        | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 0347 | 5.6                                            | 8.2                                                                  | 46500                                                        | 27.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 0348 | 5.6                                            | 8.2                                                                  | 46500                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 0349 | 5.6                                            | 8.2                                                                  | 46500                                                        | 27.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 0350 | 5.6                                            | 8.2                                                                  | 46500                                                        | 27.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 0351 | 5.6                                            | 8.2                                                                  | 46500                                                        | 27.5                                            | 50.0                                                                               | 17.0                                        |
| 21... | 0355 | 5.3                                            | 8.2                                                                  | 45900                                                        | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0356 | 5.3                                            | 8.2                                                                  | 46000                                                        | 27.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0357 | 5.3                                            | 8.2                                                                  | 45900                                                        | 27.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0358 | 5.4                                            | 8.2                                                                  | 46100                                                        | 27.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0359 | 5.4                                            | 8.2                                                                  | 46100                                                        | 27.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0400 | 5.4                                            | 8.2                                                                  | 46300                                                        | 27.5                                            | 75.0                                                                               | 16.0                                        |
| 21... | 0507 | 5.6                                            | 8.1                                                                  | 45900                                                        | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0508 | 5.4                                            | 8.1                                                                  | 46100                                                        | 27.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0509 | 5.4                                            | 8.1                                                                  | 46100                                                        | 27.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0510 | 5.4                                            | 8.1                                                                  | 46300                                                        | 27.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0511 | 5.1                                            | 8.1                                                                  | 46500                                                        | 27.0                                            | 25.0                                                                               | 12.0                                        |
| 21... | 0512 | 5.0                                            | 8.1                                                                  | 46700                                                        | 27.0                                            | 25.0                                                                               | 15.0                                        |
| 21... | 0513 | 4.9                                            | 8.1                                                                  | 46700                                                        | 27.0                                            | 25.0                                                                               | 18.0                                        |
| 21... | 0518 | 6.0                                            | 8.0                                                                  | 46100                                                        | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 0519 | 5.9                                            | 8.1                                                                  | 46100                                                        | 27.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 0520 | 5.9                                            | 8.1                                                                  | 46200                                                        | 27.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 0521 | 5.5                                            | 8.1                                                                  | 46400                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 0522 | 5.2                                            | 8.1                                                                  | 46600                                                        | 27.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 0523 | 5.2                                            | 8.1                                                                  | 46600                                                        | 27.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 0524 | 5.1                                            | 8.2                                                                  | 46600                                                        | 27.0                                            | 50.0                                                                               | 18.0                                        |
| 21... | 0525 | 5.0                                            | 8.2                                                                  | 46800                                                        | 27.0                                            | 50.0                                                                               | 21.0                                        |
| 21... | 0526 | 5.0                                            | 8.2                                                                  | 46700                                                        | 27.0                                            | 50.0                                                                               | 24.0                                        |
| 21... | 0530 | 5.1                                            | 8.2                                                                  | 45700                                                        | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0531 | 5.0                                            | 8.1                                                                  | 45800                                                        | 27.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0532 | 5.2                                            | 8.1                                                                  | 46100                                                        | 27.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0533 | 5.2                                            | 8.1                                                                  | 46400                                                        | 27.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0534 | 5.2                                            | 8.2                                                                  | 46400                                                        | 27.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0750 | 4.9                                            | 7.0                                                                  | 44500                                                        | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0751 | 5.1                                            | 7.1                                                                  | 45400                                                        | 27.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0752 | 5.4                                            | 7.2                                                                  | 45700                                                        | 27.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0753 | 5.5                                            | 7.5                                                                  | 46200                                                        | 27.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0754 | 5.5                                            | 7.6                                                                  | 46400                                                        | 27.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 0755 | 5.5                                            | 7.6                                                                  | 46400                                                        | 27.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 0756 | 5.4                                            | 7.7                                                                  | 46400                                                        | 27.5                                            | 25.0                                                                               | 18.0                                        |
| 21... | 0757 | 5.4                                            | 7.7                                                                  | 46500                                                        | 27.5                                            | 25.0                                                                               | 21.0                                        |
| 21... | 0758 | 5.4                                            | 7.8                                                                  | 46400                                                        | 27.5                                            | 25.0                                                                               | 24.0                                        |
| 21... | 0805 | 5.6                                            | 7.8                                                                  | 39800                                                        | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 0806 | 5.0                                            | 7.8                                                                  | 43400                                                        | 27.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 0807 | 5.2                                            | 7.8                                                                  | 45100                                                        | 27.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 0808 | 5.1                                            | 7.8                                                                  | 45300                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 0809 | 4.9                                            | 7.9                                                                  | 45500                                                        | 27.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 0810 | 4.9                                            | 7.9                                                                  | 46000                                                        | 27.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 0811 | 5.1                                            | 7.9                                                                  | 46100                                                        | 27.5                                            | 50.0                                                                               | 17.0                                        |
| 21... | 0813 | 5.2                                            | 7.9                                                                  | 41500                                                        | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0814 | 5.0                                            | 7.9                                                                  | 43600                                                        | 27.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0815 | 4.9                                            | 7.9                                                                  | 43800                                                        | 27.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0816 | 4.8                                            | 7.9                                                                  | 44000                                                        | 27.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0817 | 4.8                                            | 7.9                                                                  | 45800                                                        | 27.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0818 | 4.8                                            | 7.9                                                                  | 45400                                                        | 27.5                                            | 75.0                                                                               | 15.0                                        |
| 21... | 0819 | 4.8                                            | 7.9                                                                  | 45900                                                        | 27.5                                            | 75.0                                                                               | 18.0                                        |
| 21... | 0936 | 5.4                                            | 7.8                                                                  | 39800                                                        | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0937 | 5.0                                            | 7.8                                                                  | 41300                                                        | 27.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0938 | 4.8                                            | 7.8                                                                  | 43800                                                        | 27.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0939 | 5.0                                            | 7.9                                                                  | 44800                                                        | 27.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0940 | 5.1                                            | 7.9                                                                  | 45400                                                        | 27.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 0941 | 5.1                                            | 7.9                                                                  | 45300                                                        | 27.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 0942 | 5.1                                            | 7.9                                                                  | 45100                                                        | 27.5                                            | 25.0                                                                               | 18.0                                        |
| 21... | 0943 | 5.1                                            | 8.0                                                                  | 45300                                                        | 27.5                                            | 25.0                                                                               | 21.0                                        |
| 21... | 0944 | 5.0                                            | 8.0                                                                  | 45300                                                        | 27.5                                            | 25.0                                                                               | 22.0                                        |
| 21... | 0959 | 5.2                                            | 7.9                                                                  | 49000                                                        | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1000 | 5.1                                            | 7.9                                                                  | 41000                                                        | 27.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1001 | 4.9                                            | 7.9                                                                  | 42000                                                        | 27.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1002 | 4.9                                            | 7.9                                                                  | 43100                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1003 | 4.8                                            | 7.9                                                                  | 43300                                                        | 27.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1004 | 4.7                                            | 7.9                                                                  | 44200                                                        | 27.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 1005 | 4.4                                            | 7.9                                                                  | 44800                                                        | 27.5                                            | 50.0                                                                               | 16.0                                        |
| 21... | 1009 | 5.0                                            | 7.8                                                                  | 41700                                                        | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1010 | 4.9                                            | 7.8                                                                  | 42400                                                        | 27.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1011 | 4.8                                            | 7.8                                                                  | 42700                                                        | 27.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1012 | 4.8                                            | 7.8                                                                  | 42800                                                        | 27.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1013 | 4.7                                            | 7.9                                                                  | 43000                                                        | 27.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 1014 | 4.5                                            | 7.9                                                                  | 43900                                                        | 27.5                                            | 75.0                                                                               | 15.0                                        |
| 21... | 1015 | 4.3                                            | 7.9                                                                  | 44500                                                        | 27.5                                            | 75.0                                                                               | 18.0                                        |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## PASCAGOULA RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02480210 PASCAGOULA RIVER AT HWY 90 AT PASCAGOULA, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 21... | 1135 | 5.4                                            | 7.8                                                                  | 37800                                                        | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 21... | 1136 | 5.2                                            | 7.8                                                                  | 38000                                                        | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 1137 | 5.0                                            | 7.8                                                                  | 41000                                                        | 27.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 1138 | 4.8                                            | 7.8                                                                  | 41700                                                        | 27.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 1139 | 4.8                                            | 7.8                                                                  | 41900                                                        | 27.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 1140 | 4.8                                            | 7.8                                                                  | 42000                                                        | 27.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 1141 | 4.7                                            | 7.8                                                                  | 42600                                                        | 27.5                                            | 25.0                                                                               | 18.0                                        |
| 21... | 1142 | 4.6                                            | 7.9                                                                  | 43300                                                        | 27.5                                            | 25.0                                                                               | 21.0                                        |
| 21... | 1143 | 4.6                                            | 7.9                                                                  | 43400                                                        | 27.5                                            | 25.0                                                                               | 24.0                                        |
| 21... | 1147 | 5.2                                            | 7.8                                                                  | 37500                                                        | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1148 | 5.1                                            | 7.8                                                                  | 37900                                                        | 27.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1149 | 4.8                                            | 7.8                                                                  | 41100                                                        | 27.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1150 | 4.7                                            | 7.8                                                                  | 41600                                                        | 27.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1151 | 4.7                                            | 7.9                                                                  | 42200                                                        | 27.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1152 | 4.6                                            | 7.9                                                                  | 42300                                                        | 27.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 1200 | 5.5                                            | 7.8                                                                  | 39400                                                        | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1201 | 5.1                                            | 7.8                                                                  | 39500                                                        | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1202 | 5.0                                            | 7.8                                                                  | 39200                                                        | 28.0                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1203 | 5.0                                            | 7.8                                                                  | 40300                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1204 | 5.0                                            | 7.8                                                                  | 40700                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 21... | 1205 | 4.8                                            | 7.8                                                                  | 41400                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 21... | 1206 | 4.5                                            | 7.8                                                                  | 42100                                                        | 28.0                                            | 75.0                                                                               | 16.0                                        |
| 21... | 1332 | 5.4                                            | 7.8                                                                  | 35600                                                        | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 1333 | 4.8                                            | 7.7                                                                  | 38600                                                        | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 1334 | 4.5                                            | 7.8                                                                  | 39800                                                        | 27.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 1335 | 4.4                                            | 7.8                                                                  | 40000                                                        | 27.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 1336 | 4.3                                            | 7.8                                                                  | 40500                                                        | 27.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 1337 | 4.3                                            | 7.8                                                                  | 41500                                                        | 27.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 1338 | 4.3                                            | 7.8                                                                  | 41900                                                        | 27.5                                            | 25.0                                                                               | 18.0                                        |
| 21... | 1339 | 4.3                                            | 7.8                                                                  | 42600                                                        | 28.0                                            | 25.0                                                                               | 21.0                                        |
| 21... | 1340 | 4.2                                            | 7.8                                                                  | 42500                                                        | 28.0                                            | 25.0                                                                               | 22.0                                        |
| 21... | 1346 | 5.2                                            | 7.8                                                                  | 36000                                                        | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1347 | 5.0                                            | 7.8                                                                  | 36500                                                        | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1348 | 5.0                                            | 7.8                                                                  | 38600                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1349 | 5.0                                            | 7.8                                                                  | 38900                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1350 | 5.1                                            | 7.8                                                                  | 39100                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1351 | 5.0                                            | 7.8                                                                  | 39100                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 1353 | 5.0                                            | 7.8                                                                  | 36300                                                        | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1354 | 5.0                                            | 7.8                                                                  | 36600                                                        | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1355 | 5.1                                            | 7.8                                                                  | 37300                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1356 | 5.1                                            | 7.8                                                                  | 37400                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1357 | 5.1                                            | 7.8                                                                  | 37500                                                        | 28.5                                            | 75.0                                                                               | 10.0                                        |

## PASCAGOULA RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02480285 WEST PASCAGOULA RIVER AT HWY 90 AT GAUTIER, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>WATER<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                             |                                             |
| 20... | 1347 | 5.2                                            | 8.0                                                                  | 29100                                                        | 27.5                                            | 25.0                                                                                        | 1.00                                        |
| 20... | 1348 | 4.7                                            | 7.8                                                                  | 29400                                                        | 27.5                                            | 25.0                                                                                        | 3.00                                        |
| 20... | 1349 | 4.3                                            | 7.8                                                                  | 30500                                                        | 27.5                                            | 25.0                                                                                        | 6.00                                        |
| 20... | 1350 | 4.1                                            | 7.8                                                                  | 31700                                                        | 27.0                                            | 25.0                                                                                        | 9.00                                        |
| 20... | 1351 | 4.2                                            | 7.7                                                                  | 31800                                                        | 27.0                                            | 25.0                                                                                        | 10.0                                        |
| 20... | 1357 | 5.2                                            | 7.7                                                                  | 29400                                                        | 27.5                                            | 50.0                                                                                        | 1.00                                        |
| 20... | 1358 | 4.8                                            | 7.7                                                                  | 29900                                                        | 27.5                                            | 50.0                                                                                        | 3.00                                        |
| 20... | 1359 | 4.8                                            | 7.7                                                                  | 31400                                                        | 27.5                                            | 50.0                                                                                        | 6.00                                        |
| 20... | 1400 | 4.8                                            | 7.7                                                                  | 31700                                                        | 27.5                                            | 50.0                                                                                        | 9.00                                        |
| 20... | 1401 | 4.3                                            | 7.7                                                                  | 32100                                                        | 27.0                                            | 50.0                                                                                        | 12.0                                        |
| 20... | 1402 | 4.1                                            | 7.7                                                                  | 32600                                                        | 27.0                                            | 50.0                                                                                        | 13.0                                        |
| 20... | 1407 | 5.3                                            | 7.7                                                                  | 29000                                                        | 28.0                                            | 75.0                                                                                        | 1.00                                        |
| 20... | 1408 | 5.3                                            | 7.7                                                                  | 29800                                                        | 27.5                                            | 75.0                                                                                        | 3.00                                        |
| 20... | 1409 | 5.2                                            | 7.7                                                                  | 30000                                                        | 27.5                                            | 75.0                                                                                        | 6.00                                        |
| 20... | 1410 | 4.9                                            | 7.7                                                                  | 31200                                                        | 27.5                                            | 75.0                                                                                        | 9.00                                        |
| 20... | 1411 | 4.4                                            | 7.7                                                                  | 32700                                                        | 27.0                                            | 75.0                                                                                        | 12.0                                        |
| 20... | 1412 | 3.9                                            | 7.7                                                                  | 34200                                                        | 27.0                                            | 75.0                                                                                        | 15.0                                        |
| 20... | 1413 | 4.3                                            | 7.7                                                                  | 35100                                                        | 27.5                                            | 75.0                                                                                        | 18.0                                        |
| 20... | 1414 | 4.4                                            | 7.7                                                                  | 36100                                                        | 27.5                                            | 75.0                                                                                        | 21.0                                        |
| 20... | 1415 | 4.5                                            | 7.7                                                                  | 37900                                                        | 27.5                                            | 75.0                                                                                        | 22.0                                        |
| 20... | 1521 | 6.0                                            | 7.9                                                                  | 29400                                                        | 28.5                                            | 25.0                                                                                        | 1.00                                        |
| 20... | 1522 | 5.8                                            | 7.9                                                                  | 29500                                                        | 28.0                                            | 25.0                                                                                        | 3.00                                        |
| 20... | 1523 | 4.9                                            | 7.9                                                                  | 30900                                                        | 27.5                                            | 25.0                                                                                        | 6.00                                        |
| 20... | 1524 | 4.4                                            | 7.9                                                                  | 31700                                                        | 27.5                                            | 25.0                                                                                        | 9.00                                        |
| 20... | 1525 | 4.2                                            | 7.8                                                                  | 31900                                                        | 27.5                                            | 25.0                                                                                        | 10.0                                        |
| 20... | 1528 | 6.1                                            | 7.9                                                                  | 29400                                                        | 28.0                                            | 50.0                                                                                        | 1.00                                        |
| 20... | 1529 | 5.3                                            | 7.9                                                                  | 29800                                                        | 27.5                                            | 50.0                                                                                        | 3.00                                        |
| 20... | 1530 | 4.7                                            | 7.8                                                                  | 31400                                                        | 27.5                                            | 50.0                                                                                        | 6.00                                        |
| 20... | 1531 | 4.4                                            | 7.8                                                                  | 32000                                                        | 27.5                                            | 50.0                                                                                        | 9.00                                        |
| 20... | 1532 | 4.2                                            | 7.8                                                                  | 35500                                                        | 27.5                                            | 50.0                                                                                        | 12.0                                        |
| 20... | 1533 | 4.0                                            | 7.8                                                                  | 36100                                                        | 27.0                                            | 50.0                                                                                        | 15.0                                        |
| 20... | 1534 | 3.9                                            | 7.8                                                                  | 36200                                                        | 27.0                                            | 50.0                                                                                        | 16.0                                        |
| 20... | 1538 | 6.2                                            | 7.8                                                                  | 29500                                                        | 28.0                                            | 75.0                                                                                        | 1.00                                        |
| 20... | 1539 | 5.6                                            | 7.8                                                                  | 32000                                                        | 27.5                                            | 75.0                                                                                        | 3.00                                        |
| 20... | 1540 | 5.4                                            | 7.8                                                                  | 31500                                                        | 28.0                                            | 75.0                                                                                        | 6.00                                        |
| 20... | 1541 | 4.5                                            | 7.8                                                                  | 32900                                                        | 27.0                                            | 75.0                                                                                        | 9.00                                        |
| 20... | 1542 | 4.1                                            | 7.7                                                                  | 34600                                                        | 27.0                                            | 75.0                                                                                        | 12.0                                        |
| 20... | 1543 | 4.1                                            | 7.7                                                                  | 36800                                                        | 27.0                                            | 75.0                                                                                        | 15.0                                        |
| 20... | 1544 | 4.0                                            | 7.8                                                                  | 37200                                                        | 27.0                                            | 75.0                                                                                        | 18.0                                        |
| 20... | 1545 | 3.9                                            | 7.8                                                                  | 38000                                                        | 27.0                                            | 75.0                                                                                        | 21.0                                        |
| 20... | 1546 | 3.8                                            | 7.8                                                                  | 38300                                                        | 27.0                                            | 75.0                                                                                        | 24.0                                        |
| 20... | 1648 | 6.9                                            | 8.1                                                                  | 29700                                                        | 28.5                                            | 25.0                                                                                        | 1.00                                        |
| 20... | 1649 | 5.4                                            | 8.0                                                                  | 30200                                                        | 27.5                                            | 25.0                                                                                        | 3.00                                        |
| 20... | 1650 | 4.9                                            | 8.0                                                                  | 31100                                                        | 27.5                                            | 25.0                                                                                        | 6.00                                        |
| 20... | 1651 | 4.5                                            | 8.0                                                                  | 33000                                                        | 27.0                                            | 25.0                                                                                        | 9.00                                        |
| 20... | 1652 | 4.1                                            | 7.9                                                                  | 33900                                                        | 27.0                                            | 25.0                                                                                        | 11.0                                        |
| 20... | 1655 | 6.5                                            | 7.9                                                                  | 29700                                                        | 28.5                                            | 50.0                                                                                        | 1.00                                        |
| 20... | 1656 | 6.3                                            | 7.9                                                                  | 29800                                                        | 28.0                                            | 50.0                                                                                        | 3.00                                        |
| 20... | 1657 | 5.2                                            | 7.9                                                                  | 31700                                                        | 27.5                                            | 50.0                                                                                        | 6.00                                        |
| 20... | 1658 | 4.3                                            | 7.8                                                                  | 33200                                                        | 27.0                                            | 50.0                                                                                        | 9.00                                        |
| 20... | 1659 | 4.2                                            | 7.8                                                                  | 34300                                                        | 27.0                                            | 50.0                                                                                        | 12.0                                        |
| 20... | 1700 | 4.1                                            | 7.8                                                                  | 36400                                                        | 27.0                                            | 50.0                                                                                        | 15.0                                        |
| 20... | 1701 | 4.0                                            | 7.8                                                                  | 36700                                                        | 27.0                                            | 50.0                                                                                        | 18.0                                        |
| 20... | 1702 | 4.0                                            | 7.8                                                                  | 37600                                                        | 27.0                                            | 50.0                                                                                        | 21.0                                        |
| 20... | 1703 | 4.0                                            | 7.8                                                                  | 38400                                                        | 27.0                                            | 50.0                                                                                        | 23.0                                        |
| 20... | 1706 | 6.5                                            | 7.9                                                                  | 29800                                                        | 28.0                                            | 75.0                                                                                        | 1.00                                        |
| 20... | 1707 | 6.3                                            | 7.9                                                                  | 30100                                                        | 28.0                                            | 75.0                                                                                        | 3.00                                        |
| 20... | 1708 | 5.1                                            | 7.9                                                                  | 31000                                                        | 27.5                                            | 75.0                                                                                        | 6.00                                        |
| 20... | 1709 | 4.5                                            | 7.8                                                                  | 32700                                                        | 27.0                                            | 75.0                                                                                        | 9.00                                        |
| 20... | 1710 | 4.2                                            | 7.8                                                                  | 35300                                                        | 27.0                                            | 75.0                                                                                        | 12.0                                        |
| 20... | 1711 | 4.0                                            | 7.8                                                                  | 36100                                                        | 27.0                                            | 75.0                                                                                        | 15.0                                        |
| 20... | 1712 | 4.0                                            | 7.8                                                                  | 36900                                                        | 27.0                                            | 75.0                                                                                        | 18.0                                        |
| 20... | 1713 | 3.8                                            | 7.8                                                                  | 37500                                                        | 27.0                                            | 75.0                                                                                        | 21.0                                        |
| 20... | 1836 | 6.9                                            | 8.3                                                                  | 30300                                                        | 28.5                                            | 25.0                                                                                        | 1.00                                        |
| 20... | 1837 | 6.4                                            | 8.2                                                                  | 30400                                                        | 28.5                                            | 25.0                                                                                        | 3.00                                        |
| 20... | 1838 | 5.3                                            | 8.1                                                                  | 31600                                                        | 27.5                                            | 25.0                                                                                        | 6.00                                        |
| 20... | 1839 | 4.2                                            | 8.0                                                                  | 33600                                                        | 27.0                                            | 25.0                                                                                        | 9.00                                        |
| 20... | 1840 | 4.0                                            | 8.0                                                                  | 35400                                                        | 27.0                                            | 25.0                                                                                        | 10.0                                        |
| 20... | 1842 | 6.8                                            | 8.0                                                                  | 30300                                                        | 28.5                                            | 50.0                                                                                        | 1.00                                        |
| 20... | 1843 | 6.1                                            | 8.0                                                                  | 30700                                                        | 28.5                                            | 50.0                                                                                        | 3.00                                        |
| 20... | 1844 | 5.2                                            | 8.0                                                                  | 31300                                                        | 27.5                                            | 50.0                                                                                        | 6.00                                        |
| 20... | 1845 | 4.4                                            | 7.9                                                                  | 34000                                                        | 27.0                                            | 50.0                                                                                        | 9.00                                        |
| 20... | 1846 | 4.2                                            | 7.9                                                                  | 35200                                                        | 27.0                                            | 50.0                                                                                        | 12.0                                        |
| 20... | 1847 | 4.2                                            | 7.9                                                                  | 36200                                                        | 27.0                                            | 50.0                                                                                        | 15.0                                        |
| 20... | 1848 | 4.1                                            | 7.9                                                                  | 36700                                                        | 27.0                                            | 50.0                                                                                        | 18.0                                        |
| 20... | 1849 | 4.1                                            | 7.9                                                                  | 38600                                                        | 27.5                                            | 50.0                                                                                        | 21.0                                        |
| 20... | 1850 | 3.8                                            | 7.9                                                                  | 39800                                                        | 27.0                                            | 50.0                                                                                        | 24.0                                        |
| 20... | 1851 | 3.8                                            | 7.9                                                                  | 39900                                                        | 27.0                                            | 50.0                                                                                        | 25.0                                        |
| 20... | 1855 | 7.0                                            | 8.0                                                                  | 30400                                                        | 28.5                                            | 75.0                                                                                        | 1.00                                        |
| 20... | 1856 | 6.7                                            | 8.0                                                                  | 30600                                                        | 28.5                                            | 75.0                                                                                        | 3.00                                        |
| 20... | 1857 | 5.7                                            | 8.0                                                                  | 31700                                                        | 28.0                                            | 75.0                                                                                        | 6.00                                        |
| 20... | 1858 | 4.6                                            | 7.9                                                                  | 34300                                                        | 27.5                                            | 75.0                                                                                        | 9.00                                        |
| 20... | 1859 | 4.2                                            | 7.9                                                                  | 35300                                                        | 27.0                                            | 75.0                                                                                        | 12.0                                        |
| 20... | 1900 | 4.7                                            | 7.9                                                                  | 36100                                                        | 28.0                                            | 75.0                                                                                        | 15.0                                        |
| 20... | 1901 | 4.7                                            | 7.9                                                                  | 37500                                                        | 27.5                                            | 75.0                                                                                        | 18.0                                        |
| 20... | 1902 | 4.5                                            | 7.9                                                                  | 38600                                                        | 27.5                                            | 75.0                                                                                        | 21.0                                        |
| 20... | 1903 | 4.1                                            | 7.9                                                                  | 39800                                                        | 27.5                                            | 75.0                                                                                        | 24.0                                        |
| 20... | 1904 | 4.0                                            | 7.9                                                                  | 39800                                                        | 27.0                                            | 75.0                                                                                        | 25.0                                        |
| 20... | 2012 | 6.4                                            | 8.3                                                                  | 31100                                                        | 28.5                                            | 25.0                                                                                        | 1.00                                        |
| 20... | 2013 | 6.1                                            | 8.2                                                                  | 31400                                                        | 28.5                                            | 25.0                                                                                        | 3.00                                        |
| 20... | 2014 | 5.6                                            | 8.1                                                                  | 34100                                                        | 28.5                                            | 25.0                                                                                        | 6.00                                        |
| 20... | 2015 | 4.8                                            | 8.1                                                                  | 35400                                                        | 28.0                                            | 25.0                                                                                        | 9.00                                        |
| 20... | 2016 | 4.4                                            | 8.1                                                                  | 35500                                                        | 27.5                                            | 25.0                                                                                        | 10.0                                        |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## PASCAGOULA RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02480285 WEST PASCAGOULA RIVER AT HWY 90 AT GAUTIER, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD)<br>UNITS<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 20... | 2019 | 6.4                                            | 8.1                                                                  | 31700                                                        | 28.5                                            | 50.0                                                                               | 1.00                                        |
| 20... | 2020 | 6.2                                            | 8.0                                                                  | 31900                                                        | 28.5                                            | 50.0                                                                               | 3.00                                        |
| 20... | 2021 | 5.9                                            | 8.0                                                                  | 33200                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 20... | 2022 | 6.1                                            | 8.0                                                                  | 34800                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 20... | 2023 | 6.0                                            | 8.0                                                                  | 35900                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 20... | 2024 | 4.7                                            | 8.0                                                                  | 37000                                                        | 27.5                                            | 50.0                                                                               | 15.0                                        |
| 20... | 2025 | 4.0                                            | 8.0                                                                  | 37900                                                        | 27.5                                            | 50.0                                                                               | 18.0                                        |
| 20... | 2026 | 4.0                                            | 8.0                                                                  | 39800                                                        | 27.5                                            | 50.0                                                                               | 20.0                                        |
| 20... | 2028 | 6.4                                            | 8.0                                                                  | 31800                                                        | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 20... | 2029 | 6.2                                            | 8.0                                                                  | 32000                                                        | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 20... | 2030 | 5.8                                            | 8.0                                                                  | 33100                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 20... | 2031 | 5.9                                            | 7.9                                                                  | 34700                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 20... | 2032 | 6.2                                            | 7.9                                                                  | 36200                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 20... | 2033 | 5.9                                            | 8.0                                                                  | 37700                                                        | 28.5                                            | 75.0                                                                               | 15.0                                        |
| 20... | 2034 | 5.8                                            | 8.0                                                                  | 39300                                                        | 29.0                                            | 75.0                                                                               | 18.0                                        |
| 20... | 2035 | 5.7                                            | 8.0                                                                  | 39600                                                        | 29.0                                            | 75.0                                                                               | 21.0                                        |
| 20... | 2036 | 5.6                                            | 8.0                                                                  | 39700                                                        | 29.0                                            | 75.0                                                                               | 24.0                                        |
| 20... | 2222 | 7.2                                            | 8.0                                                                  | 32800                                                        | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 20... | 2223 | 6.3                                            | 8.0                                                                  | 33500                                                        | 29.0                                            | 25.0                                                                               | 3.00                                        |
| 20... | 2224 | 6.1                                            | 8.0                                                                  | 35700                                                        | 29.0                                            | 25.0                                                                               | 6.00                                        |
| 20... | 2225 | 5.6                                            | 7.9                                                                  | 37000                                                        | 29.0                                            | 25.0                                                                               | 9.00                                        |
| 20... | 2226 | 5.3                                            | 7.9                                                                  | 37900                                                        | 28.5                                            | 25.0                                                                               | 11.0                                        |
| 20... | 2228 | 6.0                                            | 7.9                                                                  | 32600                                                        | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 20... | 2229 | 5.8                                            | 7.9                                                                  | 33000                                                        | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 20... | 2230 | 5.9                                            | 7.9                                                                  | 34000                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 20... | 2231 | 6.1                                            | 7.8                                                                  | 35100                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 20... | 2232 | 5.8                                            | 7.8                                                                  | 37500                                                        | 29.0                                            | 50.0                                                                               | 12.0                                        |
| 20... | 2233 | 5.7                                            | 7.8                                                                  | 38300                                                        | 29.0                                            | 50.0                                                                               | 15.0                                        |
| 20... | 2234 | 5.7                                            | 7.9                                                                  | 38900                                                        | 29.0                                            | 50.0                                                                               | 18.0                                        |
| 20... | 2235 | 5.6                                            | 7.9                                                                  | 38900                                                        | 29.0                                            | 50.0                                                                               | 21.0                                        |
| 20... | 2236 | 5.7                                            | 7.9                                                                  | 39400                                                        | 29.0                                            | 50.0                                                                               | 24.0                                        |
| 20... | 2237 | 5.7                                            | 7.9                                                                  | 39300                                                        | 29.0                                            | 50.0                                                                               | 25.0                                        |
| 20... | 2242 | 6.1                                            | 7.9                                                                  | 33200                                                        | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 20... | 2243 | 6.1                                            | 7.9                                                                  | 34000                                                        | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 20... | 2244 | 6.1                                            | 7.9                                                                  | 35100                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 20... | 2245 | 6.0                                            | 7.9                                                                  | 36000                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 20... | 2246 | 6.0                                            | 7.9                                                                  | 37400                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 20... | 2247 | 5.8                                            | 7.9                                                                  | 39400                                                        | 29.0                                            | 75.0                                                                               | 15.0                                        |
| 20... | 2248 | 5.7                                            | 7.9                                                                  | 39700                                                        | 29.0                                            | 75.0                                                                               | 18.0                                        |
| 20... | 2249 | 5.6                                            | 7.9                                                                  | 40400                                                        | 29.0                                            | 75.0                                                                               | 21.0                                        |
| 20... | 2250 | 5.5                                            | 7.9                                                                  | 40600                                                        | 29.0                                            | 75.0                                                                               | 23.0                                        |
| 20... | 2346 | 6.3                                            | 8.1                                                                  | 36800                                                        | 29.0                                            | 25.0                                                                               | 1.00                                        |
| 20... | 2347 | 5.9                                            | 8.0                                                                  | 37400                                                        | 29.0                                            | 25.0                                                                               | 3.00                                        |
| 20... | 2348 | 5.7                                            | 8.0                                                                  | 38200                                                        | 29.0                                            | 25.0                                                                               | 6.00                                        |
| 20... | 2349 | 5.6                                            | 8.0                                                                  | 39600                                                        | 29.0                                            | 25.0                                                                               | 9.00                                        |
| 20... | 2350 | 5.5                                            | 8.0                                                                  | 39700                                                        | 29.0                                            | 25.0                                                                               | 12.0                                        |
| 20... | 2352 | 5.9                                            | 8.0                                                                  | 35000                                                        | 29.0                                            | 50.0                                                                               | 1.00                                        |
| 20... | 2353 | 5.8                                            | 8.0                                                                  | 35400                                                        | 29.0                                            | 50.0                                                                               | 3.00                                        |
| 20... | 2354 | 5.8                                            | 8.0                                                                  | 36800                                                        | 29.0                                            | 50.0                                                                               | 6.00                                        |
| 20... | 2355 | 5.7                                            | 8.0                                                                  | 38300                                                        | 29.0                                            | 50.0                                                                               | 9.00                                        |
| 20... | 2356 | 5.5                                            | 7.9                                                                  | 40500                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 20... | 2357 | 5.4                                            | 7.9                                                                  | 41300                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 20... | 2358 | 5.4                                            | 8.0                                                                  | 41600                                                        | 28.5                                            | 50.0                                                                               | 18.0                                        |
| 20... | 2359 | 5.4                                            | 8.0                                                                  | 41900                                                        | 28.5                                            | 50.0                                                                               | 21.0                                        |
| 20... | 2400 | 5.3                                            | 8.0                                                                  | 42600                                                        | 28.5                                            | 50.0                                                                               | 22.0                                        |
| 21... | 0008 | 5.5                                            | 8.0                                                                  | 35200                                                        | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0009 | 5.5                                            | 7.9                                                                  | 35600                                                        | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0010 | 5.6                                            | 7.9                                                                  | 36500                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0011 | 5.6                                            | 7.9                                                                  | 37300                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0012 | 5.4                                            | 7.9                                                                  | 40400                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0013 | 5.2                                            | 7.9                                                                  | 43100                                                        | 28.5                                            | 75.0                                                                               | 15.0                                        |
| 21... | 0014 | 5.2                                            | 7.9                                                                  | 43600                                                        | 28.5                                            | 75.0                                                                               | 18.0                                        |
| 21... | 0015 | 5.2                                            | 7.9                                                                  | 43600                                                        | 28.5                                            | 75.0                                                                               | 21.0                                        |
| 21... | 0016 | 5.1                                            | 8.0                                                                  | 43600                                                        | 28.5                                            | 75.0                                                                               | 22.0                                        |
| 21... | 0128 | 5.4                                            | 8.1                                                                  | 38500                                                        | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0129 | 5.3                                            | 8.0                                                                  | 39400                                                        | 28.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0130 | 5.3                                            | 8.0                                                                  | 39900                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0131 | 5.2                                            | 8.0                                                                  | 42300                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0132 | 5.2                                            | 8.0                                                                  | 42500                                                        | 28.5                                            | 25.0                                                                               | 11.0                                        |
| 21... | 0136 | 5.2                                            | 8.0                                                                  | 36800                                                        | 28.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 0137 | 5.2                                            | 8.0                                                                  | 38000                                                        | 28.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 0138 | 5.2                                            | 8.0                                                                  | 41000                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 21... | 0139 | 5.1                                            | 8.0                                                                  | 42100                                                        | 28.0                                            | 50.0                                                                               | 9.00                                        |
| 21... | 0140 | 5.1                                            | 8.0                                                                  | 42800                                                        | 28.0                                            | 50.0                                                                               | 12.0                                        |
| 21... | 0141 | 5.1                                            | 8.0                                                                  | 43100                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 21... | 0142 | 5.1                                            | 8.0                                                                  | 42900                                                        | 28.0                                            | 50.0                                                                               | 16.0                                        |
| 21... | 0145 | 5.1                                            | 8.0                                                                  | 36900                                                        | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0146 | 5.2                                            | 8.0                                                                  | 37800                                                        | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0147 | 5.2                                            | 8.0                                                                  | 38500                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0148 | 5.0                                            | 7.9                                                                  | 41800                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0149 | 5.0                                            | 7.9                                                                  | 43300                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0150 | 5.0                                            | 8.0                                                                  | 44200                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 21... | 0151 | 5.2                                            | 8.0                                                                  | 44900                                                        | 28.0                                            | 75.0                                                                               | 18.0                                        |
| 21... | 0152 | 5.3                                            | 8.0                                                                  | 45100                                                        | 28.0                                            | 75.0                                                                               | 21.0                                        |
| 21... | 0153 | 5.3                                            | 8.0                                                                  | 45000                                                        | 28.0                                            | 75.0                                                                               | 24.0                                        |
| 21... | 0250 | 6.1                                            | 8.2                                                                  | 39900                                                        | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0251 | 5.1                                            | 8.1                                                                  | 41500                                                        | 28.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0252 | 5.1                                            | 8.1                                                                  | 43500                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0253 | 5.2                                            | 8.1                                                                  | 43600                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0254 | 5.2                                            | 8.1                                                                  | 43700                                                        | 28.5                                            | 25.0                                                                               | 11.0                                        |

## PASCAGOULA RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02480285 WEST PASCAGOULA RIVER AT HWY 90 AT GAUTIER, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(* FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 21... | 0259 | 4.8                                            | 8.1                                                                  | 37900                                                        | 28.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 0300 | 4.8                                            | 8.0                                                                  | 39300                                                        | 28.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 0301 | 4.8                                            | 8.0                                                                  | 41100                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 21... | 0302 | 4.9                                            | 8.0                                                                  | 42200                                                        | 28.0                                            | 50.0                                                                               | 9.00                                        |
| 21... | 0303 | 5.1                                            | 8.0                                                                  | 43900                                                        | 28.0                                            | 50.0                                                                               | 12.0                                        |
| 21... | 0304 | 5.1                                            | 8.0                                                                  | 44300                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 21... | 0309 | 4.8                                            | 8.0                                                                  | 36700                                                        | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0310 | 4.7                                            | 8.0                                                                  | 38500                                                        | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0311 | 4.7                                            | 8.0                                                                  | 39800                                                        | 28.0                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0312 | 5.0                                            | 7.9                                                                  | 43300                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0313 | 5.0                                            | 8.0                                                                  | 44700                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0314 | 5.1                                            | 8.0                                                                  | 45300                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 21... | 0315 | 5.2                                            | 8.0                                                                  | 45700                                                        | 28.0                                            | 75.0                                                                               | 18.0                                        |
| 21... | 0316 | 5.2                                            | 8.0                                                                  | 45700                                                        | 28.0                                            | 75.0                                                                               | 20.0                                        |
| 21... | 0428 | 5.0                                            | 8.1                                                                  | 39300                                                        | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0429 | 4.8                                            | 8.1                                                                  | 40900                                                        | 28.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0430 | 4.8                                            | 8.1                                                                  | 43000                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0431 | 4.9                                            | 8.0                                                                  | 44400                                                        | 28.0                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0432 | 4.9                                            | 8.1                                                                  | 44500                                                        | 28.0                                            | 25.0                                                                               | 10.0                                        |
| 21... | 0435 | 4.7                                            | 8.0                                                                  | 38500                                                        | 28.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 0436 | 4.5                                            | 8.0                                                                  | 39600                                                        | 28.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 0437 | 4.8                                            | 8.0                                                                  | 42900                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 21... | 0438 | 4.9                                            | 8.0                                                                  | 44400                                                        | 28.0                                            | 50.0                                                                               | 9.00                                        |
| 21... | 0439 | 5.1                                            | 8.0                                                                  | 45800                                                        | 28.0                                            | 50.0                                                                               | 12.0                                        |
| 21... | 0440 | 5.2                                            | 8.0                                                                  | 46100                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 21... | 0441 | 5.2                                            | 8.1                                                                  | 46000                                                        | 28.0                                            | 50.0                                                                               | 18.0                                        |
| 21... | 0442 | 5.3                                            | 8.1                                                                  | 46400                                                        | 28.0                                            | 50.0                                                                               | 21.0                                        |
| 21... | 0443 | 5.3                                            | 8.1                                                                  | 46400                                                        | 28.0                                            | 50.0                                                                               | 24.0                                        |
| 21... | 0446 | 4.6                                            | 8.1                                                                  | 38400                                                        | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0447 | 4.4                                            | 8.0                                                                  | 40500                                                        | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0448 | 4.5                                            | 8.0                                                                  | 42700                                                        | 28.0                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0449 | 4.4                                            | 8.0                                                                  | 44600                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0450 | 4.8                                            | 8.0                                                                  | 45600                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0451 | 5.0                                            | 8.0                                                                  | 46300                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 21... | 0452 | 5.2                                            | 8.1                                                                  | 46300                                                        | 28.0                                            | 75.0                                                                               | 16.0                                        |
| 21... | 0551 | 5.2                                            | 8.1                                                                  | 37700                                                        | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0552 | 4.7                                            | 8.1                                                                  | 40600                                                        | 28.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0553 | 4.7                                            | 8.0                                                                  | 43100                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0554 | 4.8                                            | 8.0                                                                  | 45200                                                        | 28.0                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0555 | 5.0                                            | 8.0                                                                  | 45800                                                        | 28.0                                            | 25.0                                                                               | 12.0                                        |
| 21... | 0558 | 4.7                                            | 8.0                                                                  | 38800                                                        | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 0559 | 4.6                                            | 8.0                                                                  | 39500                                                        | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 0600 | 4.5                                            | 8.0                                                                  | 42400                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 21... | 0601 | 4.7                                            | 8.0                                                                  | 44100                                                        | 28.0                                            | 50.0                                                                               | 9.00                                        |
| 21... | 0602 | 4.6                                            | 8.0                                                                  | 45200                                                        | 28.0                                            | 50.0                                                                               | 12.0                                        |
| 21... | 0603 | 4.6                                            | 8.0                                                                  | 45700                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 21... | 0604 | 5.2                                            | 8.0                                                                  | 46300                                                        | 28.0                                            | 50.0                                                                               | 18.0                                        |
| 21... | 0605 | 5.2                                            | 8.1                                                                  | 46600                                                        | 28.0                                            | 50.0                                                                               | 21.0                                        |
| 21... | 0606 | 5.3                                            | 8.1                                                                  | 46600                                                        | 28.0                                            | 50.0                                                                               | 24.0                                        |
| 21... | 0607 | 5.3                                            | 8.1                                                                  | 46600                                                        | 28.0                                            | 50.0                                                                               | 29.0                                        |
| 21... | 0610 | 4.7                                            | 8.0                                                                  | 38200                                                        | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0611 | 4.6                                            | 8.0                                                                  | 41700                                                        | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0612 | 4.7                                            | 8.0                                                                  | 43800                                                        | 28.0                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0613 | 4.8                                            | 8.0                                                                  | 44600                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0614 | 4.9                                            | 8.0                                                                  | 45600                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0615 | 4.6                                            | 8.0                                                                  | 46100                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 21... | 0616 | 4.9                                            | 8.0                                                                  | 46300                                                        | 28.0                                            | 75.0                                                                               | 18.0                                        |
| 21... | 0617 | 5.1                                            | 8.1                                                                  | 46500                                                        | 28.0                                            | 75.0                                                                               | 19.0                                        |
| 21... | 0843 | 4.3                                            | 7.7                                                                  | 35400                                                        | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 21... | 0844 | 4.3                                            | 7.7                                                                  | 36300                                                        | 28.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 0845 | 4.7                                            | 7.7                                                                  | 37300                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 0846 | 4.8                                            | 7.7                                                                  | 49500                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 0847 | 4.7                                            | 7.7                                                                  | 40400                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 0850 | 5.0                                            | 7.7                                                                  | 34800                                                        | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 0851 | 5.0                                            | 7.7                                                                  | 36900                                                        | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 0852 | 4.8                                            | 7.6                                                                  | 38800                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 21... | 0853 | 4.8                                            | 7.6                                                                  | 40800                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 0854 | 4.8                                            | 7.7                                                                  | 41600                                                        | 28.0                                            | 50.0                                                                               | 12.0                                        |
| 21... | 0855 | 4.7                                            | 7.7                                                                  | 42000                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 21... | 0856 | 4.8                                            | 7.8                                                                  | 42000                                                        | 28.0                                            | 50.0                                                                               | 18.0                                        |
| 21... | 0857 | 4.8                                            | 7.7                                                                  | 43700                                                        | 28.0                                            | 50.0                                                                               | 21.0                                        |
| 21... | 0858 | 4.8                                            | 7.8                                                                  | 44300                                                        | 28.0                                            | 50.0                                                                               | 23.0                                        |
| 21... | 0908 | 5.7                                            | 7.8                                                                  | 35500                                                        | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 0909 | 5.0                                            | 7.8                                                                  | 36000                                                        | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 0910 | 4.9                                            | 7.7                                                                  | 38200                                                        | 28.0                                            | 75.0                                                                               | 6.00                                        |
| 21... | 0911 | 4.9                                            | 7.7                                                                  | 38300                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 21... | 0912 | 4.7                                            | 7.8                                                                  | 42500                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 21... | 0913 | 4.7                                            | 7.8                                                                  | 44500                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 21... | 0914 | 4.8                                            | 7.8                                                                  | 45100                                                        | 28.0                                            | 75.0                                                                               | 18.0                                        |
| 21... | 0915 | 4.8                                            | 7.8                                                                  | 45500                                                        | 28.0                                            | 75.0                                                                               | 20.0                                        |
| 21... | 1040 | 5.2                                            | 7.8                                                                  | 35800                                                        | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 1041 | 5.0                                            | 7.8                                                                  | 36500                                                        | 28.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 1042 | 4.8                                            | 7.7                                                                  | 37300                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 1043 | 4.8                                            | 7.7                                                                  | 37400                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 1044 | 4.8                                            | 7.7                                                                  | 37600                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 1045 | 4.8                                            | 7.7                                                                  | 37600                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 1049 | 6.0                                            | 7.7                                                                  | 34800                                                        | 28.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1050 | 4.9                                            | 7.7                                                                  | 36200                                                        | 28.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1051 | 4.8                                            | 7.7                                                                  | 37400                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1052 | 4.8                                            | 7.7                                                                  | 37700                                                        | 28.0                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1053 | 4.7                                            | 7.7                                                                  | 37900                                                        | 28.0                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1054 | 4.7                                            | 7.7                                                                  | 37900                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 1055 | 4.7                                            | 7.7                                                                  | 38100                                                        | 28.5                                            | 50.0                                                                               | 18.0                                        |
| 21... | 1056 | 4.7                                            | 7.7                                                                  | 38500                                                        | 28.0                                            | 50.0                                                                               | 21.0                                        |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## PASCAGOULA RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02480285 WEST PASCAGOULA RIVER AT HWY 90 AT GAUTIER, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 21... | 1106 | 5.2                                            | 7.7                                                                  | 34400                                                        | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1107 | 5.1                                            | 7.6                                                                  | 34500                                                        | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1108 | 4.9                                            | 7.6                                                                  | 34900                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1109 | 4.5                                            | 7.6                                                                  | 35600                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1110 | 4.4                                            | 7.6                                                                  | 38600                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 21... | 1111 | 4.5                                            | 7.6                                                                  | 40000                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 21... | 1112 | 4.6                                            | 7.7                                                                  | 40000                                                        | 28.0                                            | 75.0                                                                               | 18.0                                        |
| 21... | 1113 | 4.6                                            | 7.7                                                                  | 41500                                                        | 28.0                                            | 75.0                                                                               | 21.0                                        |
| 21... | 1236 | 5.2                                            | 7.9                                                                  | 31700                                                        | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 1237 | 5.0                                            | 7.8                                                                  | 31700                                                        | 28.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 1238 | 4.8                                            | 7.8                                                                  | 32400                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 1239 | 4.6                                            | 7.7                                                                  | 32800                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 1240 | 4.6                                            | 7.7                                                                  | 33500                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 1241 | 4.6                                            | 7.7                                                                  | 33600                                                        | 28.5                                            | 25.0                                                                               | 13.0                                        |
| 21... | 1247 | 5.0                                            | 7.6                                                                  | 31900                                                        | 28.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1248 | 4.9                                            | 7.6                                                                  | 33000                                                        | 28.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1249 | 4.7                                            | 7.6                                                                  | 34900                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1250 | 4.6                                            | 7.6                                                                  | 35000                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1251 | 4.5                                            | 7.6                                                                  | 35300                                                        | 28.0                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1252 | 4.4                                            | 7.6                                                                  | 35500                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 21... | 1253 | 4.4                                            | 7.6                                                                  | 35700                                                        | 28.0                                            | 50.0                                                                               | 18.0                                        |
| 21... | 1254 | 4.3                                            | 7.6                                                                  | 35900                                                        | 28.0                                            | 50.0                                                                               | 20.0                                        |
| 21... | 1301 | 5.2                                            | 7.7                                                                  | 31500                                                        | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1302 | 4.9                                            | 7.6                                                                  | 32700                                                        | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1303 | 4.8                                            | 7.6                                                                  | 33100                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1304 | 4.4                                            | 7.6                                                                  | 34000                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1305 | 4.2                                            | 7.6                                                                  | 35000                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 21... | 1306 | 4.1                                            | 7.5                                                                  | 35900                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 21... | 1307 | 4.1                                            | 7.6                                                                  | 36600                                                        | 28.0                                            | 75.0                                                                               | 18.0                                        |
| 21... | 1308 | 4.2                                            | 7.6                                                                  | 36800                                                        | 28.0                                            | 75.0                                                                               | 21.0                                        |
| 21... | 1309 | 4.1                                            | 7.6                                                                  | 37100                                                        | 28.0                                            | 75.0                                                                               | 24.0                                        |

## BACK BAY OF BILOXI TIDAL CYCLE STUDY

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481279 BACK BAY OF BILOXI AT D'IBERVILLE, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 21... | 1730 | 5.4                                            | 7.6                                                                  | 27600                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 21... | 1731 | 5.3                                            | 7.6                                                                  | 27700                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 21... | 1732 | 5.1                                            | 7.6                                                                  | 28300                                                        | 29.0                                            | 10.0                                                                               | 6.00                                        |
| 21... | 1733 | 4.0                                            | 7.6                                                                  | 28900                                                        | 28.5                                            | 10.0                                                                               | 9.00                                        |
| 21... | 1734 | 3.6                                            | 7.6                                                                  | 29000                                                        | 28.5                                            | 10.0                                                                               | 11.0                                        |
| 21... | 1737 | 5.9                                            | 7.6                                                                  | 27500                                                        | 28.5                                            | 20.0                                                                               | 1.00                                        |
| 21... | 1738 | 5.4                                            | 7.6                                                                  | 27500                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 21... | 1739 | 4.8                                            | 7.6                                                                  | 28100                                                        | 28.5                                            | 20.0                                                                               | 6.00                                        |
| 21... | 1740 | 4.5                                            | 7.6                                                                  | 28300                                                        | 28.5                                            | 20.0                                                                               | 9.00                                        |
| 21... | 1741 | 4.1                                            | 7.6                                                                  | 28900                                                        | 28.5                                            | 20.0                                                                               | 12.0                                        |
| 21... | 1742 | 3.3                                            | 7.6                                                                  | 30200                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 21... | 1743 | 2.5                                            | 7.5                                                                  | 31500                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 21... | 1744 | 2.2                                            | 7.5                                                                  | 32900                                                        | 28.0                                            | 20.0                                                                               | 20.0                                        |
| 21... | 1746 | 4.7                                            | 7.6                                                                  | 27200                                                        | 28.5                                            | 30.0                                                                               | 1.00                                        |
| 21... | 1747 | 4.6                                            | 7.6                                                                  | 27500                                                        | 28.5                                            | 30.0                                                                               | 3.00                                        |
| 21... | 1748 | 4.5                                            | 7.6                                                                  | 28300                                                        | 29.0                                            | 30.0                                                                               | 6.00                                        |
| 21... | 1749 | 3.8                                            | 7.6                                                                  | 28700                                                        | 28.5                                            | 30.0                                                                               | 9.00                                        |
| 21... | 1750 | 3.5                                            | 7.6                                                                  | 29200                                                        | 28.5                                            | 30.0                                                                               | 12.0                                        |
| 21... | 1811 | 5.5                                            | 7.7                                                                  | 27600                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 21... | 1812 | 5.0                                            | 7.7                                                                  | 27900                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 21... | 1813 | 4.8                                            | 7.7                                                                  | 28100                                                        | 28.5                                            | 10.0                                                                               | 6.00                                        |
| 21... | 1814 | 5.2                                            | 7.7                                                                  | 28400                                                        | 28.5                                            | 10.0                                                                               | 9.00                                        |
| 21... | 1815 | 5.4                                            | 7.7                                                                  | 28500                                                        | 29.0                                            | 10.0                                                                               | 10.0                                        |
| 21... | 1817 | 5.6                                            | 7.7                                                                  | 27600                                                        | 28.5                                            | 20.0                                                                               | 1.00                                        |
| 21... | 1818 | 4.8                                            | 7.7                                                                  | 27600                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 21... | 1819 | 4.7                                            | 7.7                                                                  | 28200                                                        | 28.5                                            | 20.0                                                                               | 6.00                                        |
| 21... | 1820 | 4.3                                            | 7.7                                                                  | 28400                                                        | 28.5                                            | 20.0                                                                               | 9.00                                        |
| 21... | 1821 | 3.7                                            | 7.6                                                                  | 29200                                                        | 29.0                                            | 20.0                                                                               | 12.0                                        |
| 21... | 1822 | 3.0                                            | 7.6                                                                  | 30000                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 21... | 1823 | 2.6                                            | 7.6                                                                  | 31500                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 21... | 1824 | 2.4                                            | 7.6                                                                  | 32900                                                        | 28.0                                            | 20.0                                                                               | 20.0                                        |
| 21... | 1827 | 4.9                                            | 7.7                                                                  | 27500                                                        | 28.5                                            | 30.0                                                                               | 1.00                                        |
| 21... | 1828 | 4.9                                            | 7.7                                                                  | 27500                                                        | 28.5                                            | 30.0                                                                               | 3.00                                        |
| 21... | 1829 | 4.6                                            | 7.6                                                                  | 28300                                                        | 28.5                                            | 30.0                                                                               | 6.00                                        |
| 21... | 1830 | 4.0                                            | 7.6                                                                  | 28500                                                        | 28.5                                            | 30.0                                                                               | 9.00                                        |
| 21... | 1831 | 3.8                                            | 7.6                                                                  | 28700                                                        | 28.5                                            | 30.0                                                                               | 10.0                                        |
| 21... | 1833 | 5.8                                            | 7.7                                                                  | 27500                                                        | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1834 | 4.9                                            | 7.7                                                                  | 27500                                                        | 28.5                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1836 | 5.4                                            | 7.7                                                                  | 28700                                                        | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1837 | 5.4                                            | 7.7                                                                  | 28700                                                        | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1838 | 5.2                                            | 7.7                                                                  | 28800                                                        | 28.5                                            | 75.0                                                                               | 5.00                                        |
| 21... | 1900 | 5.6                                            | 7.8                                                                  | 27900                                                        | 28.0                                            | 10.0                                                                               | 1.00                                        |
| 21... | 1901 | 5.1                                            | 7.8                                                                  | 28000                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 21... | 1902 | 4.8                                            | 7.7                                                                  | 28100                                                        | 28.5                                            | 10.0                                                                               | 6.00                                        |
| 21... | 1903 | 4.2                                            | 7.7                                                                  | 28700                                                        | 28.5                                            | 10.0                                                                               | 9.00                                        |
| 21... | 1904 | 3.2                                            | 7.7                                                                  | 29900                                                        | 28.5                                            | 10.0                                                                               | 12.0                                        |
| 21... | 1905 | 2.9                                            | 7.7                                                                  | 30100                                                        | 28.0                                            | 10.0                                                                               | 14.0                                        |
| 21... | 1908 | 5.4                                            | 7.7                                                                  | 27900                                                        | 28.5                                            | 20.0                                                                               | 1.00                                        |
| 21... | 1909 | 5.0                                            | 7.7                                                                  | 27900                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 21... | 1910 | 4.9                                            | 7.7                                                                  | 28000                                                        | 28.5                                            | 20.0                                                                               | 6.00                                        |
| 21... | 1911 | 4.5                                            | 7.7                                                                  | 29000                                                        | 28.5                                            | 20.0                                                                               | 9.00                                        |
| 21... | 1912 | 3.4                                            | 7.7                                                                  | 29400                                                        | 29.0                                            | 20.0                                                                               | 12.0                                        |
| 21... | 1913 | 2.9                                            | 7.6                                                                  | 30700                                                        | 28.5                                            | 20.0                                                                               | 15.0                                        |
| 21... | 1914 | 2.3                                            | 7.6                                                                  | 32000                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 21... | 1915 | 2.2                                            | 7.6                                                                  | 32800                                                        | 28.0                                            | 20.0                                                                               | 19.0                                        |
| 21... | 1917 | 5.2                                            | 7.7                                                                  | 27800                                                        | 28.0                                            | 30.0                                                                               | 1.00                                        |
| 21... | 1918 | 5.0                                            | 7.7                                                                  | 27800                                                        | 28.5                                            | 30.0                                                                               | 3.00                                        |
| 21... | 1919 | 4.6                                            | 7.7                                                                  | 28700                                                        | 28.5                                            | 30.0                                                                               | 6.00                                        |
| 21... | 1920 | 4.0                                            | 7.7                                                                  | 28700                                                        | 28.5                                            | 30.0                                                                               | 9.00                                        |
| 21... | 1921 | 3.6                                            | 7.6                                                                  | 29300                                                        | 28.5                                            | 30.0                                                                               | 12.0                                        |
| 21... | 1922 | 2.7                                            | 7.6                                                                  | 29900                                                        | 28.0                                            | 30.0                                                                               | 13.0                                        |
| 21... | 1945 | 6.4                                            | 7.7                                                                  | 28100                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 21... | 1946 | 4.8                                            | 7.7                                                                  | 28200                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 21... | 1947 | 4.6                                            | 7.7                                                                  | 28400                                                        | 28.5                                            | 10.0                                                                               | 6.00                                        |
| 21... | 1948 | 4.0                                            | 7.7                                                                  | 29000                                                        | 28.5                                            | 10.0                                                                               | 9.00                                        |
| 21... | 1949 | 5.2                                            | 7.7                                                                  | 29300                                                        | 29.0                                            | 10.0                                                                               | 10.0                                        |
| 21... | 1951 | 4.9                                            | 7.7                                                                  | 28000                                                        | 28.5                                            | 20.0                                                                               | 1.00                                        |
| 21... | 1952 | 4.8                                            | 7.7                                                                  | 28300                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 21... | 1953 | 4.6                                            | 7.7                                                                  | 28700                                                        | 28.5                                            | 20.0                                                                               | 6.00                                        |
| 21... | 1954 | 4.4                                            | 7.7                                                                  | 29200                                                        | 28.5                                            | 20.0                                                                               | 9.00                                        |
| 21... | 1955 | 4.2                                            | 7.7                                                                  | 29800                                                        | 28.5                                            | 20.0                                                                               | 12.0                                        |
| 21... | 1956 | 3.8                                            | 7.7                                                                  | 30500                                                        | 28.5                                            | 20.0                                                                               | 15.0                                        |
| 21... | 1957 | 2.8                                            | 7.7                                                                  | 31400                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 21... | 1958 | 2.6                                            | 7.7                                                                  | 32200                                                        | 28.0                                            | 20.0                                                                               | 20.0                                        |
| 21... | 2001 | 4.9                                            | 7.7                                                                  | 28100                                                        | 28.5                                            | 30.0                                                                               | 1.00                                        |
| 21... | 2002 | 4.8                                            | 7.7                                                                  | 28300                                                        | 28.5                                            | 30.0                                                                               | 3.00                                        |
| 21... | 2003 | 4.4                                            | 7.7                                                                  | 28800                                                        | 28.5                                            | 30.0                                                                               | 6.00                                        |
| 21... | 2004 | 4.2                                            | 7.7                                                                  | 29100                                                        | 28.5                                            | 30.0                                                                               | 9.00                                        |
| 21... | 2005 | 3.5                                            | 7.7                                                                  | 29400                                                        | 28.5                                            | 30.0                                                                               | 11.0                                        |
| 21... | 2026 | 4.6                                            | 7.7                                                                  | 28300                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 21... | 2027 | 4.6                                            | 7.7                                                                  | 28900                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 21... | 2028 | 4.8                                            | 7.7                                                                  | 28900                                                        | 28.5                                            | 10.0                                                                               | 6.00                                        |
| 21... | 2029 | 5.4                                            | 7.7                                                                  | 29100                                                        | 28.5                                            | 10.0                                                                               | 9.00                                        |
| 21... | 2030 | 4.2                                            | 7.7                                                                  | 29300                                                        | 28.5                                            | 10.0                                                                               | 10.0                                        |
| 21... | 2032 | 4.7                                            | 7.7                                                                  | 28400                                                        | 28.5                                            | 20.0                                                                               | 1.00                                        |
| 21... | 2033 | 4.7                                            | 7.7                                                                  | 28800                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 21... | 2034 | 4.7                                            | 7.7                                                                  | 29300                                                        | 28.5                                            | 20.0                                                                               | 6.00                                        |
| 21... | 2035 | 4.7                                            | 7.7                                                                  | 29800                                                        | 28.5                                            | 20.0                                                                               | 9.00                                        |
| 21... | 2036 | 4.8                                            | 7.7                                                                  | 30400                                                        | 28.5                                            | 20.0                                                                               | 12.0                                        |
| 21... | 2037 | 4.2                                            | 7.7                                                                  | 31000                                                        | 28.5                                            | 20.0                                                                               | 15.0                                        |
| 21... | 2038 | 4.0                                            | 7.7                                                                  | 31200                                                        | 28.5                                            | 20.0                                                                               | 18.0                                        |
| 21... | 2039 | 3.8                                            | 7.7                                                                  | 31400                                                        | 28.5                                            | 20.0                                                                               | 20.0                                        |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## BACK BAY OF BILOXI TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481279 BACK BAY OF BILOXI AT D'IBERVILLE, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 21... | 2042 | 4.9                                            | 7.8                                                                  | 28900                                                        | 28.5                                            | 30.0                                                                               | 1.00                                        |
| 21... | 2043 | 4.9                                            | 7.8                                                                  | 29000                                                        | 28.5                                            | 30.0                                                                               | 3.00                                        |
| 21... | 2044 | 5.0                                            | 7.7                                                                  | 29200                                                        | 28.5                                            | 30.0                                                                               | 6.00                                        |
| 21... | 2045 | 5.0                                            | 7.7                                                                  | 29300                                                        | 28.5                                            | 30.0                                                                               | 9.00                                        |
| 21... | 2046 | 4.5                                            | 7.7                                                                  | 29500                                                        | 28.5                                            | 30.0                                                                               | 12.0                                        |
| 21... | 2114 | 5.0                                            | 7.7                                                                  | 28900                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 21... | 2115 | 4.7                                            | 7.7                                                                  | 29200                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 21... | 2116 | 4.4                                            | 7.7                                                                  | 29900                                                        | 28.5                                            | 10.0                                                                               | 6.00                                        |
| 21... | 2117 | 4.2                                            | 7.7                                                                  | 30100                                                        | 28.5                                            | 10.0                                                                               | 9.00                                        |
| 21... | 2118 | 4.1                                            | 7.7                                                                  | 30400                                                        | 28.5                                            | 10.0                                                                               | 12.0                                        |
| 21... | 2119 | 4.1                                            | 7.7                                                                  | 30500                                                        | 28.5                                            | 10.0                                                                               | 13.0                                        |
| 21... | 2121 | 4.6                                            | 7.7                                                                  | 29300                                                        | 28.5                                            | 20.0                                                                               | 1.00                                        |
| 21... | 2122 | 4.4                                            | 7.7                                                                  | 29700                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 21... | 2123 | 4.5                                            | 7.7                                                                  | 30000                                                        | 28.5                                            | 20.0                                                                               | 6.00                                        |
| 21... | 2124 | 4.6                                            | 7.7                                                                  | 30400                                                        | 28.5                                            | 20.0                                                                               | 9.00                                        |
| 21... | 2125 | 4.6                                            | 7.7                                                                  | 30600                                                        | 28.5                                            | 20.0                                                                               | 12.0                                        |
| 21... | 2126 | 4.4                                            | 7.7                                                                  | 31200                                                        | 28.5                                            | 20.0                                                                               | 15.0                                        |
| 21... | 2127 | 4.1                                            | 7.7                                                                  | 31600                                                        | 28.5                                            | 20.0                                                                               | 18.0                                        |
| 21... | 2128 | 3.8                                            | 7.8                                                                  | 31700                                                        | 28.5                                            | 20.0                                                                               | 20.0                                        |
| 21... | 2130 | 4.9                                            | 7.8                                                                  | 29400                                                        | 28.0                                            | 30.0                                                                               | 1.00                                        |
| 21... | 2131 | 4.7                                            | 7.8                                                                  | 29500                                                        | 28.0                                            | 30.0                                                                               | 3.00                                        |
| 21... | 2132 | 4.7                                            | 7.7                                                                  | 30000                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 21... | 2133 | 4.7                                            | 7.8                                                                  | 30100                                                        | 28.5                                            | 30.0                                                                               | 9.00                                        |
| 21... | 2134 | 4.6                                            | 7.8                                                                  | 30000                                                        | 28.5                                            | 30.0                                                                               | 11.0                                        |
| 21... | 2204 | 4.2                                            | 7.7                                                                  | 30300                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 21... | 2205 | 4.2                                            | 7.7                                                                  | 30800                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 21... | 2206 | 4.1                                            | 7.7                                                                  | 30500                                                        | 28.5                                            | 10.0                                                                               | 6.00                                        |
| 21... | 2207 | 3.7                                            | 7.7                                                                  | 30900                                                        | 28.5                                            | 10.0                                                                               | 9.00                                        |
| 21... | 2208 | 3.8                                            | 7.7                                                                  | 31200                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 21... | 2209 | 3.7                                            | 7.7                                                                  | 31400                                                        | 28.0                                            | 10.0                                                                               | 15.0                                        |
| 21... | 2210 | 3.7                                            | 7.7                                                                  | 31500                                                        | 28.0                                            | 10.0                                                                               | 17.0                                        |
| 21... | 2213 | 4.3                                            | 7.7                                                                  | 30000                                                        | 28.5                                            | 20.0                                                                               | 1.00                                        |
| 21... | 2214 | 4.5                                            | 7.7                                                                  | 30500                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 21... | 2215 | 4.5                                            | 7.7                                                                  | 30600                                                        | 28.5                                            | 20.0                                                                               | 6.00                                        |
| 21... | 2216 | 4.6                                            | 7.7                                                                  | 30600                                                        | 28.5                                            | 20.0                                                                               | 9.00                                        |
| 21... | 2217 | 3.9                                            | 7.7                                                                  | 31600                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 21... | 2218 | 3.6                                            | 7.7                                                                  | 31800                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 21... | 2219 | 3.3                                            | 7.7                                                                  | 32100                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 21... | 2220 | 3.2                                            | 7.7                                                                  | 32100                                                        | 28.0                                            | 20.0                                                                               | 19.0                                        |
| 21... | 2222 | 4.6                                            | 7.7                                                                  | 30500                                                        | 28.5                                            | 30.0                                                                               | 1.00                                        |
| 21... | 2223 | 4.6                                            | 7.7                                                                  | 30500                                                        | 28.5                                            | 30.0                                                                               | 3.00                                        |
| 21... | 2224 | 4.6                                            | 7.7                                                                  | 30500                                                        | 28.5                                            | 30.0                                                                               | 6.00                                        |
| 21... | 2225 | 4.5                                            | 7.7                                                                  | 30600                                                        | 28.5                                            | 30.0                                                                               | 9.00                                        |
| 21... | 2226 | 4.5                                            | 7.7                                                                  | 30600                                                        | 28.5                                            | 30.0                                                                               | 11.0                                        |
| 21... | 2301 | 4.3                                            | 7.8                                                                  | 30300                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 21... | 2302 | 4.3                                            | 7.8                                                                  | 31000                                                        | 28.0                                            | 10.0                                                                               | 3.00                                        |
| 21... | 2303 | 4.5                                            | 7.8                                                                  | 31100                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 21... | 2304 | 4.5                                            | 7.8                                                                  | 31300                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 21... | 2305 | 4.2                                            | 7.8                                                                  | 31000                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 21... | 2306 | 4.3                                            | 7.8                                                                  | 31700                                                        | 28.0                                            | 10.0                                                                               | 15.0                                        |
| 21... | 2307 | 4.2                                            | 7.8                                                                  | 32000                                                        | 28.0                                            | 10.0                                                                               | 17.0                                        |
| 21... | 2309 | 4.4                                            | 7.8                                                                  | 30000                                                        | 28.0                                            | 20.0                                                                               | 1.00                                        |
| 21... | 2310 | 4.3                                            | 7.8                                                                  | 30400                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 21... | 2311 | 4.4                                            | 7.7                                                                  | 30900                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 21... | 2312 | 4.4                                            | 7.7                                                                  | 31200                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 21... | 2313 | 4.3                                            | 7.8                                                                  | 32100                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 21... | 2314 | 4.2                                            | 7.8                                                                  | 32200                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 21... | 2315 | 3.9                                            | 7.8                                                                  | 32300                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 21... | 2316 | 3.7                                            | 7.8                                                                  | 33300                                                        | 28.0                                            | 20.0                                                                               | 19.0                                        |
| 21... | 2321 | 5.8                                            | 7.7                                                                  | 30600                                                        | 28.5                                            | 30.0                                                                               | 1.00                                        |
| 21... | 2322 | 4.5                                            | 7.7                                                                  | 30800                                                        | 28.5                                            | 30.0                                                                               | 3.00                                        |
| 21... | 2323 | 4.4                                            | 7.7                                                                  | 30800                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 21... | 2324 | 4.2                                            | 7.7                                                                  | 31000                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 21... | 2325 | 4.2                                            | 7.7                                                                  | 31100                                                        | 28.0                                            | 30.0                                                                               | 10.0                                        |
| 22... | 0058 | 4.2                                            | 6.8                                                                  | 30700                                                        | 28.0                                            | 10.0                                                                               | 1.00                                        |
| 22... | 0059 | 4.2                                            | 6.9                                                                  | 31300                                                        | 28.0                                            | 10.0                                                                               | 3.00                                        |
| 22... | 0100 | 4.4                                            | 7.0                                                                  | 31900                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 0101 | 4.4                                            | 7.1                                                                  | 32100                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 0102 | 4.3                                            | 7.2                                                                  | 32200                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 22... | 0103 | 4.2                                            | 7.2                                                                  | 33200                                                        | 28.0                                            | 10.0                                                                               | 15.0                                        |
| 22... | 0104 | 4.2                                            | 7.3                                                                  | 33200                                                        | 28.0                                            | 10.0                                                                               | 18.0                                        |
| 22... | 0105 | 4.2                                            | 7.4                                                                  | 33300                                                        | 28.0                                            | 10.0                                                                               | 21.0                                        |
| 22... | 0106 | 4.2                                            | 7.4                                                                  | 33200                                                        | 28.0                                            | 10.0                                                                               | 23.0                                        |
| 22... | 0127 | 4.3                                            | 7.4                                                                  | 31000                                                        | 28.0                                            | 20.0                                                                               | 1.00                                        |
| 22... | 0128 | 4.2                                            | 7.5                                                                  | 31400                                                        | 28.0                                            | 20.0                                                                               | 3.00                                        |
| 22... | 0129 | 4.2                                            | 7.5                                                                  | 32000                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 0130 | 4.4                                            | 7.6                                                                  | 33000                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 0131 | 4.4                                            | 7.6                                                                  | 34200                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 0132 | 4.4                                            | 7.6                                                                  | 34400                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 0133 | 4.4                                            | 7.7                                                                  | 34400                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 0134 | 4.3                                            | 7.7                                                                  | 34300                                                        | 28.0                                            | 20.0                                                                               | 21.0                                        |
| 22... | 0135 | 4.3                                            | 7.7                                                                  | 34300                                                        | 28.0                                            | 20.0                                                                               | 22.0                                        |
| 22... | 0157 | 4.8                                            | 7.6                                                                  | 31800                                                        | 28.0                                            | 30.0                                                                               | 1.00                                        |
| 22... | 0158 | 4.2                                            | 7.6                                                                  | 32400                                                        | 28.0                                            | 30.0                                                                               | 3.00                                        |
| 22... | 0159 | 4.2                                            | 7.6                                                                  | 32600                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 0200 | 4.2                                            | 7.7                                                                  | 32700                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 0201 | 4.2                                            | 7.7                                                                  | 32800                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 0202 | 4.1                                            | 7.7                                                                  | 32800                                                        | 28.0                                            | 30.0                                                                               | 13.0                                        |

## BACK BAY OF BILOXI TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481279 BACK BAY OF BILOXI AT D'IBERVILLE, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 22... | 0225 | 4.2                                            | 7.6                                                                  | 30500                                                        | 28.0                                            | 10.0                                                                               | 1.00                                        |
| 22... | 0226 | 4.0                                            | 7.6                                                                  | 32000                                                        | 28.0                                            | 10.0                                                                               | 3.00                                        |
| 22... | 0227 | 4.1                                            | 7.7                                                                  | 32600                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 0228 | 4.2                                            | 7.7                                                                  | 33600                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 0229 | 4.2                                            | 7.8                                                                  | 34300                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 22... | 0230 | 4.1                                            | 7.8                                                                  | 35000                                                        | 28.0                                            | 10.0                                                                               | 15.0                                        |
| 22... | 0231 | 4.1                                            | 7.8                                                                  | 35300                                                        | 28.0                                            | 10.0                                                                               | 18.0                                        |
| 22... | 0232 | 4.1                                            | 7.8                                                                  | 35300                                                        | 28.0                                            | 10.0                                                                               | 20.0                                        |
| 22... | 0257 | 4.4                                            | 7.6                                                                  | 32900                                                        | 28.0                                            | 20.0                                                                               | 1.00                                        |
| 22... | 0258 | 4.1                                            | 7.6                                                                  | 33900                                                        | 28.0                                            | 20.0                                                                               | 3.00                                        |
| 22... | 0259 | 4.2                                            | 7.7                                                                  | 34600                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 0300 | 4.2                                            | 7.7                                                                  | 34800                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 0301 | 4.2                                            | 7.8                                                                  | 35200                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 0302 | 4.1                                            | 7.8                                                                  | 35600                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 0303 | 4.0                                            | 7.8                                                                  | 36000                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 0304 | 4.0                                            | 7.8                                                                  | 36000                                                        | 28.0                                            | 20.0                                                                               | 21.0                                        |
| 22... | 0305 | 4.0                                            | 7.8                                                                  | 36000                                                        | 28.0                                            | 20.0                                                                               | 23.0                                        |
| 22... | 0328 | 4.3                                            | 7.6                                                                  | 34000                                                        | 28.0                                            | 30.0                                                                               | 1.00                                        |
| 22... | 0329 | 4.0                                            | 7.7                                                                  | 34200                                                        | 28.0                                            | 30.0                                                                               | 3.00                                        |
| 22... | 0330 | 4.1                                            | 7.7                                                                  | 35000                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 0331 | 4.2                                            | 7.8                                                                  | 35200                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 0332 | 4.2                                            | 7.8                                                                  | 35200                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 0333 | 4.2                                            | 7.8                                                                  | 35200                                                        | 28.0                                            | 30.0                                                                               | 18.0                                        |
| 22... | 0355 | 4.0                                            | 7.9                                                                  | 31800                                                        | 28.0                                            | 10.0                                                                               | 1.00                                        |
| 22... | 0356 | 3.9                                            | 7.8                                                                  | 33600                                                        | 28.0                                            | 10.0                                                                               | 3.00                                        |
| 22... | 0357 | 4.1                                            | 7.8                                                                  | 35400                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 0358 | 4.2                                            | 7.8                                                                  | 35700                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 0359 | 4.1                                            | 7.9                                                                  | 35900                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 22... | 0400 | 4.2                                            | 7.9                                                                  | 36000                                                        | 28.0                                            | 10.0                                                                               | 15.0                                        |
| 22... | 0401 | 4.1                                            | 7.9                                                                  | 36200                                                        | 28.0                                            | 10.0                                                                               | 18.0                                        |
| 22... | 0402 | 4.1                                            | 7.9                                                                  | 36200                                                        | 28.0                                            | 10.0                                                                               | 20.0                                        |
| 22... | 0410 | 4.0                                            | 7.9                                                                  | 34900                                                        | 28.0                                            | 20.0                                                                               | 1.00                                        |
| 22... | 0411 | 3.9                                            | 7.9                                                                  | 35000                                                        | 28.0                                            | 20.0                                                                               | 3.00                                        |
| 22... | 0412 | 4.0                                            | 7.9                                                                  | 35500                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 0413 | 4.1                                            | 7.9                                                                  | 36000                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 0414 | 4.1                                            | 7.9                                                                  | 36200                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 0415 | 4.1                                            | 7.9                                                                  | 36300                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 0416 | 4.1                                            | 7.9                                                                  | 36300                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 0417 | 4.1                                            | 7.9                                                                  | 36300                                                        | 28.0                                            | 20.0                                                                               | 21.0                                        |
| 22... | 0445 | 4.4                                            | 7.8                                                                  | 35200                                                        | 27.5                                            | 30.0                                                                               | 1.00                                        |
| 22... | 0446 | 4.1                                            | 7.8                                                                  | 35500                                                        | 27.5                                            | 30.0                                                                               | 3.00                                        |
| 22... | 0447 | 4.1                                            | 7.8                                                                  | 35800                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 0448 | 4.1                                            | 7.9                                                                  | 36500                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 0449 | 4.1                                            | 7.9                                                                  | 36700                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 0450 | 4.1                                            | 7.9                                                                  | 36700                                                        | 28.0                                            | 30.0                                                                               | 14.0                                        |
| 22... | 0507 | 3.7                                            | 7.7                                                                  | 34200                                                        | 28.0                                            | 10.0                                                                               | 1.00                                        |
| 22... | 0508 | 3.7                                            | 7.7                                                                  | 34900                                                        | 28.0                                            | 10.0                                                                               | 3.00                                        |
| 22... | 0509 | 3.8                                            | 7.7                                                                  | 35900                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 0510 | 4.1                                            | 7.8                                                                  | 36400                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 0511 | 4.1                                            | 7.8                                                                  | 36500                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 22... | 0512 | 4.1                                            | 7.8                                                                  | 36600                                                        | 28.0                                            | 10.0                                                                               | 15.0                                        |
| 22... | 0513 | 4.1                                            | 7.9                                                                  | 36700                                                        | 28.0                                            | 10.0                                                                               | 17.0                                        |
| 22... | 0534 | 4.3                                            | 7.6                                                                  | 34600                                                        | 27.5                                            | 20.0                                                                               | 1.00                                        |
| 22... | 0535 | 3.8                                            | 7.7                                                                  | 35300                                                        | 28.0                                            | 20.0                                                                               | 3.00                                        |
| 22... | 0536 | 3.8                                            | 7.7                                                                  | 35700                                                        | 27.5                                            | 20.0                                                                               | 6.00                                        |
| 22... | 0537 | 3.8                                            | 7.8                                                                  | 35800                                                        | 27.5                                            | 20.0                                                                               | 9.00                                        |
| 22... | 0538 | 4.0                                            | 7.8                                                                  | 36500                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 0539 | 4.1                                            | 7.8                                                                  | 36800                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 0540 | 4.1                                            | 7.8                                                                  | 36800                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 0541 | 4.1                                            | 7.9                                                                  | 36900                                                        | 27.5                                            | 20.0                                                                               | 21.0                                        |
| 22... | 0542 | 4.1                                            | 7.9                                                                  | 36900                                                        | 27.5                                            | 20.0                                                                               | 23.0                                        |
| 22... | 0607 | 3.8                                            | 7.9                                                                  | 33900                                                        | 27.5                                            | 30.0                                                                               | 1.00                                        |
| 22... | 0608 | 3.7                                            | 7.9                                                                  | 34800                                                        | 27.5                                            | 30.0                                                                               | 3.00                                        |
| 22... | 0609 | 3.7                                            | 7.9                                                                  | 35200                                                        | 27.5                                            | 30.0                                                                               | 6.00                                        |
| 22... | 0610 | 3.8                                            | 7.9                                                                  | 35500                                                        | 27.5                                            | 30.0                                                                               | 9.00                                        |
| 22... | 0611 | 3.9                                            | 7.9                                                                  | 36600                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 0612 | 4.0                                            | 7.9                                                                  | 37000                                                        | 28.0                                            | 30.0                                                                               | 15.0                                        |
| 22... | 0613 | 4.3                                            | 7.9                                                                  | 37000                                                        | 28.0                                            | 30.0                                                                               | 17.0                                        |
| 22... | 0634 | 3.6                                            | 7.6                                                                  | 34500                                                        | 27.5                                            | 10.0                                                                               | 1.00                                        |
| 22... | 0635 | 3.3                                            | 7.7                                                                  | 34800                                                        | 27.5                                            | 10.0                                                                               | 3.00                                        |
| 22... | 0636 | 3.5                                            | 7.7                                                                  | 35300                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 0637 | 3.7                                            | 7.7                                                                  | 36100                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 0638 | 3.8                                            | 7.8                                                                  | 36400                                                        | 28.0                                            | 10.0                                                                               | 11.0                                        |
| 22... | 0647 | 4.1                                            | 7.7                                                                  | 33800                                                        | 27.5                                            | 20.0                                                                               | 1.00                                        |
| 22... | 0648 | 3.7                                            | 7.7                                                                  | 34800                                                        | 27.5                                            | 20.0                                                                               | 3.00                                        |
| 22... | 0649 | 3.6                                            | 7.7                                                                  | 35300                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 0650 | 3.6                                            | 7.8                                                                  | 36000                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 0651 | 3.8                                            | 7.8                                                                  | 36600                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 0652 | 4.0                                            | 7.8                                                                  | 36900                                                        | 27.5                                            | 20.0                                                                               | 15.0                                        |
| 22... | 0653 | 4.0                                            | 7.8                                                                  | 37000                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 0654 | 4.0                                            | 7.9                                                                  | 37100                                                        | 27.5                                            | 20.0                                                                               | 21.0                                        |
| 22... | 0655 | 4.0                                            | 7.9                                                                  | 37100                                                        | 27.5                                            | 20.0                                                                               | 22.0                                        |
| 22... | 0711 | 4.3                                            | 7.6                                                                  | 33600                                                        | 27.5                                            | 30.0                                                                               | 1.00                                        |
| 22... | 0712 | 3.8                                            | 7.7                                                                  | 34700                                                        | 27.5                                            | 30.0                                                                               | 3.00                                        |
| 22... | 0713 | 3.6                                            | 7.7                                                                  | 35200                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 0714 | 3.7                                            | 7.7                                                                  | 36000                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 0715 | 3.8                                            | 7.8                                                                  | 36400                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 0716 | 3.8                                            | 7.8                                                                  | 36900                                                        | 28.0                                            | 30.0                                                                               | 15.0                                        |
| 22... | 0717 | 3.7                                            | 7.8                                                                  | 36900                                                        | 28.0                                            | 30.0                                                                               | 17.0                                        |
| 22... | 0722 | 4.2                                            | 7.7                                                                  | 33700                                                        | 27.5                                            | 10.0                                                                               | 1.00                                        |
| 22... | 0723 | 3.6                                            | 7.8                                                                  | 34400                                                        | 28.0                                            | 10.0                                                                               | 3.00                                        |
| 22... | 0724 | 3.6                                            | 7.8                                                                  | 35000                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 0725 | 3.7                                            | 7.8                                                                  | 35600                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 0726 | 3.7                                            | 7.8                                                                  | 36300                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 22... | 0727 | 3.7                                            | 7.8                                                                  | 36400                                                        | 28.0                                            | 10.0                                                                               | 14.0                                        |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## BACK BAY OF BILOXI TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481279 BACK BAY OF BILOXI AT D'IBERVILLE, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 22... | 0729 | 3.7                                            | 7.8                                                                  | 33500                                                        | 27.5                                            | 20.0                                                                               | 1.00                                        |
| 22... | 0730 | 3.6                                            | 7.8                                                                  | 34300                                                        | 27.5                                            | 20.0                                                                               | 3.00                                        |
| 22... | 0731 | 3.6                                            | 7.8                                                                  | 35000                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 0732 | 3.6                                            | 7.8                                                                  | 35500                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 0733 | 3.7                                            | 7.8                                                                  | 36600                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 0734 | 3.8                                            | 7.8                                                                  | 36500                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 0735 | 3.9                                            | 7.9                                                                  | 36800                                                        | 27.5                                            | 20.0                                                                               | 18.0                                        |
| 22... | 0736 | 3.9                                            | 7.9                                                                  | 36900                                                        | 27.5                                            | 20.0                                                                               | 21.0                                        |
| 22... | 0737 | 3.9                                            | 7.9                                                                  | 36900                                                        | 27.5                                            | 20.0                                                                               | 22.0                                        |
| 22... | 0741 | 3.8                                            | 7.8                                                                  | 33100                                                        | 27.5                                            | 30.0                                                                               | 1.00                                        |
| 22... | 0742 | 3.6                                            | 7.8                                                                  | 33700                                                        | 27.5                                            | 30.0                                                                               | 3.00                                        |
| 22... | 0743 | 3.6                                            | 7.8                                                                  | 35100                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 0744 | 3.6                                            | 7.8                                                                  | 35700                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 0745 | 3.7                                            | 7.8                                                                  | 36300                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 0746 | 3.8                                            | 7.8                                                                  | 36800                                                        | 28.0                                            | 30.0                                                                               | 15.0                                        |
| 22... | 0747 | 3.8                                            | 7.8                                                                  | 36900                                                        | 28.0                                            | 30.0                                                                               | 17.0                                        |
| 22... | 0857 | 3.8                                            | 7.3                                                                  | 30600                                                        | 27.5                                            | 10.0                                                                               | 1.00                                        |
| 22... | 0858 | 3.7                                            | 7.3                                                                  | 31000                                                        | 27.5                                            | 10.0                                                                               | 3.00                                        |
| 22... | 0859 | 3.6                                            | 7.3                                                                  | 32600                                                        | 27.5                                            | 10.0                                                                               | 6.00                                        |
| 22... | 0900 | 3.5                                            | 7.4                                                                  | 33800                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 0901 | 3.5                                            | 7.4                                                                  | 34200                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 22... | 0902 | 3.5                                            | 7.5                                                                  | 34300                                                        | 28.0                                            | 10.0                                                                               | 14.0                                        |
| 22... | 0905 | 4.3                                            | 7.5                                                                  | 30300                                                        | 27.5                                            | 20.0                                                                               | 1.00                                        |
| 22... | 0906 | 3.9                                            | 7.5                                                                  | 30800                                                        | 27.5                                            | 20.0                                                                               | 3.00                                        |
| 22... | 0907 | 3.7                                            | 7.5                                                                  | 32000                                                        | 27.5                                            | 20.0                                                                               | 6.00                                        |
| 22... | 0908 | 3.5                                            | 7.5                                                                  | 33800                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 0909 | 3.5                                            | 7.5                                                                  | 34400                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 0910 | 3.5                                            | 7.6                                                                  | 35400                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 0911 | 3.6                                            | 7.6                                                                  | 35900                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 0912 | 3.4                                            | 7.6                                                                  | 36800                                                        | 27.5                                            | 20.0                                                                               | 21.0                                        |
| 22... | 0915 | 4.1                                            | 7.7                                                                  | 30100                                                        | 27.5                                            | 30.0                                                                               | 1.00                                        |
| 22... | 0916 | 3.8                                            | 7.7                                                                  | 30500                                                        | 27.5                                            | 30.0                                                                               | 3.00                                        |
| 22... | 0917 | 3.5                                            | 7.6                                                                  | 32200                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 0918 | 3.4                                            | 7.6                                                                  | 33400                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 0919 | 3.5                                            | 7.6                                                                  | 34900                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 0920 | 3.5                                            | 7.6                                                                  | 35400                                                        | 28.0                                            | 30.0                                                                               | 15.0                                        |
| 22... | 0921 | 3.5                                            | 7.6                                                                  | 35500                                                        | 28.0                                            | 30.0                                                                               | 17.0                                        |
| 22... | 1001 | 5.3                                            | 7.6                                                                  | 30300                                                        | 28.0                                            | 10.0                                                                               | 1.00                                        |
| 22... | 1002 | 4.1                                            | 7.6                                                                  | 30600                                                        | 28.0                                            | 10.0                                                                               | 3.00                                        |
| 22... | 1003 | 3.9                                            | 7.6                                                                  | 31100                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 1004 | 3.7                                            | 7.6                                                                  | 31500                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 1005 | 3.6                                            | 7.6                                                                  | 31600                                                        | 28.0                                            | 10.0                                                                               | 10.0                                        |
| 22... | 1008 | 5.2                                            | 7.6                                                                  | 30500                                                        | 27.5                                            | 20.0                                                                               | 1.00                                        |
| 22... | 1009 | 3.9                                            | 7.6                                                                  | 30700                                                        | 28.0                                            | 20.0                                                                               | 3.00                                        |
| 22... | 1010 | 3.8                                            | 7.6                                                                  | 30800                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 1011 | 3.5                                            | 7.6                                                                  | 32100                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 1012 | 3.3                                            | 7.6                                                                  | 32400                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 1013 | 3.4                                            | 7.6                                                                  | 34700                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 1014 | 3.4                                            | 7.6                                                                  | 35400                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 1016 | 4.0                                            | 7.7                                                                  | 30400                                                        | 28.0                                            | 30.0                                                                               | 1.00                                        |
| 22... | 1017 | 3.9                                            | 7.7                                                                  | 30600                                                        | 28.0                                            | 30.0                                                                               | 3.00                                        |
| 22... | 1018 | 3.5                                            | 7.6                                                                  | 31700                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 1019 | 3.3                                            | 7.6                                                                  | 32500                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 1020 | 3.3                                            | 7.6                                                                  | 33200                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 1021 | 3.2                                            | 7.6                                                                  | 34100                                                        | 28.0                                            | 30.0                                                                               | 15.0                                        |
| 22... | 1104 | 4.8                                            | 7.7                                                                  | 30000                                                        | 28.0                                            | 10.0                                                                               | 1.00                                        |
| 22... | 1105 | 4.4                                            | 7.7                                                                  | 29900                                                        | 28.0                                            | 10.0                                                                               | 3.00                                        |
| 22... | 1106 | 4.2                                            | 7.6                                                                  | 30200                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 1107 | 4.0                                            | 7.6                                                                  | 30500                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 1108 | 3.8                                            | 7.6                                                                  | 31100                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 22... | 1110 | 4.4                                            | 7.6                                                                  | 30000                                                        | 28.0                                            | 20.0                                                                               | 1.00                                        |
| 22... | 1111 | 4.2                                            | 7.6                                                                  | 30100                                                        | 28.0                                            | 20.0                                                                               | 3.00                                        |
| 22... | 1112 | 4.0                                            | 7.6                                                                  | 30200                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 1113 | 3.8                                            | 7.6                                                                  | 30900                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 1114 | 3.5                                            | 7.6                                                                  | 31600                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 1115 | 3.5                                            | 7.6                                                                  | 32200                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 1116 | 3.2                                            | 7.6                                                                  | 34400                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 1117 | 3.1                                            | 7.6                                                                  | 36400                                                        | 28.0                                            | 20.0                                                                               | 20.0                                        |
| 22... | 1119 | 4.2                                            | 7.7                                                                  | 29900                                                        | 28.0                                            | 30.0                                                                               | 1.00                                        |
| 22... | 1120 | 4.0                                            | 7.7                                                                  | 30000                                                        | 28.0                                            | 30.0                                                                               | 3.00                                        |
| 22... | 1121 | 3.8                                            | 7.6                                                                  | 30500                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 1122 | 3.4                                            | 7.6                                                                  | 31200                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 1123 | 3.2                                            | 7.6                                                                  | 32200                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 1124 | 3.1                                            | 7.6                                                                  | 32700                                                        | 28.0                                            | 30.0                                                                               | 16.0                                        |
| 22... | 1202 | 4.8                                            | 7.7                                                                  | 29200                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 22... | 1203 | 4.7                                            | 7.7                                                                  | 29300                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 22... | 1204 | 4.4                                            | 7.7                                                                  | 29800                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 1205 | 4.0                                            | 7.7                                                                  | 30200                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 1206 | 3.9                                            | 7.7                                                                  | 30300                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 22... | 1208 | 5.2                                            | 7.7                                                                  | 29400                                                        | 28.0                                            | 20.0                                                                               | 1.00                                        |
| 22... | 1209 | 4.4                                            | 7.7                                                                  | 29500                                                        | 28.0                                            | 20.0                                                                               | 3.00                                        |
| 22... | 1210 | 4.3                                            | 7.7                                                                  | 29900                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 1211 | 3.8                                            | 7.6                                                                  | 30500                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 1212 | 3.6                                            | 7.6                                                                  | 30900                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 1213 | 3.4                                            | 7.6                                                                  | 31100                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 1214 | 3.4                                            | 7.6                                                                  | 32800                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 1216 | 4.3                                            | 7.7                                                                  | 29300                                                        | 28.0                                            | 30.0                                                                               | 1.00                                        |
| 22... | 1217 | 4.2                                            | 7.7                                                                  | 29700                                                        | 28.0                                            | 30.0                                                                               | 3.00                                        |
| 22... | 1218 | 3.9                                            | 7.6                                                                  | 29900                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 1219 | 3.6                                            | 7.6                                                                  | 30500                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 1220 | 3.5                                            | 7.6                                                                  | 30700                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 1221 | 3.3                                            | 7.6                                                                  | 31800                                                        | 28.0                                            | 30.0                                                                               | 15.0                                        |
| 22... | 1222 | 3.1                                            | 7.6                                                                  | 31800                                                        | 28.0                                            | 30.0                                                                               | 17.0                                        |

## BACK BAY OF BILOXI TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481279 BACK BAY OF BILOXI AT D'IBERVILLE, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT-<br>X-SECT-<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 22... | 1312 | 5.3                                            | 7.8                                                                  | 28600                                                        | 28.0                                            | 10.0                                                                               | 1.00                                        |
| 22... | 1313 | 4.6                                            | 7.7                                                                  | 28700                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 22... | 1314 | 4.5                                            | 7.7                                                                  | 28900                                                        | 28.5                                            | 10.0                                                                               | 6.00                                        |
| 22... | 1315 | 4.1                                            | 7.7                                                                  | 29400                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 1316 | 4.1                                            | 7.7                                                                  | 29400                                                        | 28.0                                            | 10.0                                                                               | 12.0                                        |
| 22... | 1318 | 4.8                                            | 7.7                                                                  | 28900                                                        | 28.5                                            | 20.0                                                                               | 1.00                                        |
| 22... | 1319 | 4.5                                            | 7.7                                                                  | 28900                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 22... | 1320 | 4.3                                            | 7.7                                                                  | 29100                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 1321 | 4.1                                            | 7.6                                                                  | 29400                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 1322 | 3.7                                            | 7.6                                                                  | 30000                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 1323 | 3.6                                            | 7.6                                                                  | 30000                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 1324 | 3.6                                            | 7.6                                                                  | 30300                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 1326 | 4.4                                            | 7.7                                                                  | 28800                                                        | 28.0                                            | 30.0                                                                               | 1.00                                        |
| 22... | 1327 | 4.4                                            | 7.6                                                                  | 28900                                                        | 28.0                                            | 30.0                                                                               | 3.00                                        |
| 22... | 1328 | 4.0                                            | 7.6                                                                  | 29000                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 1329 | 3.9                                            | 7.6                                                                  | 29200                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 1330 | 3.7                                            | 7.6                                                                  | 29800                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 1331 | 3.4                                            | 7.6                                                                  | 30800                                                        | 28.0                                            | 30.0                                                                               | 15.0                                        |
| 22... | 1404 | 4.6                                            | 7.7                                                                  | 28300                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 22... | 1405 | 4.7                                            | 7.7                                                                  | 28400                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 22... | 1406 | 4.4                                            | 7.7                                                                  | 28600                                                        | 28.5                                            | 10.0                                                                               | 6.00                                        |
| 22... | 1407 | 4.4                                            | 7.6                                                                  | 28600                                                        | 28.5                                            | 10.0                                                                               | 9.00                                        |
| 22... | 1408 | 4.3                                            | 7.6                                                                  | 28600                                                        | 28.5                                            | 10.0                                                                               | 11.0                                        |
| 22... | 1410 | 5.2                                            | 7.7                                                                  | 28400                                                        | 28.0                                            | 20.0                                                                               | 1.00                                        |
| 22... | 1411 | 4.6                                            | 7.7                                                                  | 28500                                                        | 28.0                                            | 20.0                                                                               | 3.00                                        |
| 22... | 1412 | 4.5                                            | 7.6                                                                  | 28200                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 1413 | 4.4                                            | 7.6                                                                  | 28000                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 1414 | 4.4                                            | 7.6                                                                  | 28300                                                        | 28.5                                            | 20.0                                                                               | 12.0                                        |
| 22... | 1415 | 4.2                                            | 7.6                                                                  | 28900                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 1417 | 4.6                                            | 7.6                                                                  | 28200                                                        | 28.0                                            | 30.0                                                                               | 1.00                                        |
| 22... | 1418 | 4.2                                            | 7.6                                                                  | 28500                                                        | 28.0                                            | 30.0                                                                               | 3.00                                        |
| 22... | 1419 | 4.0                                            | 7.6                                                                  | 28700                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 1420 | 3.8                                            | 7.6                                                                  | 28900                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 1421 | 3.7                                            | 7.6                                                                  | 29400                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 1422 | 3.6                                            | 7.6                                                                  | 29200                                                        | 28.0                                            | 30.0                                                                               | 14.0                                        |
| 22... | 1500 | 5.7                                            | 7.8                                                                  | 27600                                                        | 28.0                                            | 10.0                                                                               | 1.00                                        |
| 22... | 1501 | 5.0                                            | 7.8                                                                  | 27700                                                        | 28.0                                            | 10.0                                                                               | 3.00                                        |
| 22... | 1502 | 4.6                                            | 7.7                                                                  | 27800                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 1503 | 4.6                                            | 7.7                                                                  | 27800                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 1504 | 4.5                                            | 7.7                                                                  | 27800                                                        | 28.0                                            | 10.0                                                                               | 11.0                                        |
| 22... | 1506 | 5.2                                            | 7.7                                                                  | 27700                                                        | 28.0                                            | 20.0                                                                               | 1.00                                        |
| 22... | 1507 | 4.6                                            | 7.7                                                                  | 27700                                                        | 28.0                                            | 20.0                                                                               | 3.00                                        |
| 22... | 1508 | 4.5                                            | 7.7                                                                  | 27700                                                        | 28.0                                            | 20.0                                                                               | 6.00                                        |
| 22... | 1509 | 4.2                                            | 7.6                                                                  | 28200                                                        | 28.0                                            | 20.0                                                                               | 9.00                                        |
| 22... | 1510 | 4.2                                            | 7.6                                                                  | 28100                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 1511 | 4.2                                            | 7.6                                                                  | 28300                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 1512 | 3.9                                            | 7.6                                                                  | 28800                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 1513 | 4.0                                            | 7.6                                                                  | 28600                                                        | 28.0                                            | 20.0                                                                               | 19.0                                        |
| 22... | 1515 | 4.7                                            | 7.6                                                                  | 27700                                                        | 28.5                                            | 30.0                                                                               | 1.00                                        |
| 22... | 1516 | 4.6                                            | 7.6                                                                  | 27700                                                        | 28.5                                            | 30.0                                                                               | 3.00                                        |
| 22... | 1517 | 4.4                                            | 7.6                                                                  | 27800                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 1518 | 4.3                                            | 7.6                                                                  | 27900                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 1519 | 3.9                                            | 7.6                                                                  | 28700                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 1520 | 3.6                                            | 7.6                                                                  | 29200                                                        | 28.0                                            | 30.0                                                                               | 13.0                                        |
| 22... | 1600 | 5.2                                            | 7.8                                                                  | 26700                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 22... | 1601 | 5.0                                            | 7.8                                                                  | 26700                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 22... | 1602 | 4.8                                            | 7.7                                                                  | 27000                                                        | 28.0                                            | 10.0                                                                               | 6.00                                        |
| 22... | 1603 | 4.7                                            | 7.7                                                                  | 27000                                                        | 28.0                                            | 10.0                                                                               | 9.00                                        |
| 22... | 1604 | 4.7                                            | 7.7                                                                  | 27000                                                        | 28.0                                            | 10.0                                                                               | 11.0                                        |
| 22... | 1606 | 6.4                                            | 7.6                                                                  | 26800                                                        | 28.5                                            | 20.0                                                                               | 1.00                                        |
| 22... | 1607 | 5.0                                            | 7.6                                                                  | 26800                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 22... | 1608 | 4.9                                            | 7.6                                                                  | 26800                                                        | 28.5                                            | 20.0                                                                               | 6.00                                        |
| 22... | 1609 | 4.8                                            | 7.6                                                                  | 26900                                                        | 28.5                                            | 20.0                                                                               | 9.00                                        |
| 22... | 1610 | 4.7                                            | 7.6                                                                  | 27000                                                        | 28.5                                            | 20.0                                                                               | 12.0                                        |
| 22... | 1611 | 4.2                                            | 7.6                                                                  | 27700                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 1612 | 4.0                                            | 7.6                                                                  | 28100                                                        | 28.0                                            | 20.0                                                                               | 17.0                                        |
| 22... | 1614 | 5.1                                            | 7.7                                                                  | 26900                                                        | 28.0                                            | 30.0                                                                               | 1.00                                        |
| 22... | 1615 | 4.8                                            | 7.7                                                                  | 27000                                                        | 28.5                                            | 30.0                                                                               | 3.00                                        |
| 22... | 1616 | 4.6                                            | 7.7                                                                  | 27100                                                        | 28.0                                            | 30.0                                                                               | 6.00                                        |
| 22... | 1617 | 4.5                                            | 7.6                                                                  | 27200                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 1618 | 4.1                                            | 7.6                                                                  | 27800                                                        | 28.0                                            | 30.0                                                                               | 12.0                                        |
| 22... | 1619 | 3.8                                            | 7.6                                                                  | 28200                                                        | 28.0                                            | 30.0                                                                               | 13.0                                        |
| 22... | 1631 | 5.7                                            | 7.7                                                                  | 26400                                                        | 28.5                                            | 10.0                                                                               | 1.00                                        |
| 22... | 1632 | 5.4                                            | 7.7                                                                  | 26400                                                        | 28.5                                            | 10.0                                                                               | 3.00                                        |
| 22... | 1633 | 5.2                                            | 7.7                                                                  | 26500                                                        | 28.5                                            | 10.0                                                                               | 6.00                                        |
| 22... | 1634 | 4.9                                            | 7.6                                                                  | 26700                                                        | 28.5                                            | 10.0                                                                               | 9.00                                        |
| 22... | 1635 | 4.9                                            | 7.6                                                                  | 26700                                                        | 28.5                                            | 10.0                                                                               | 11.0                                        |
| 22... | 1637 | 5.6                                            | 7.6                                                                  | 26300                                                        | 28.5                                            | 20.0                                                                               | 1.00                                        |
| 22... | 1638 | 5.2                                            | 7.6                                                                  | 26500                                                        | 28.5                                            | 20.0                                                                               | 3.00                                        |
| 22... | 1639 | 4.9                                            | 7.6                                                                  | 26600                                                        | 28.5                                            | 20.0                                                                               | 6.00                                        |
| 22... | 1640 | 4.7                                            | 7.6                                                                  | 27000                                                        | 28.5                                            | 20.0                                                                               | 9.00                                        |
| 22... | 1641 | 4.6                                            | 7.6                                                                  | 27200                                                        | 28.0                                            | 20.0                                                                               | 12.0                                        |
| 22... | 1642 | 4.5                                            | 7.6                                                                  | 27400                                                        | 28.0                                            | 20.0                                                                               | 15.0                                        |
| 22... | 1643 | 4.1                                            | 7.6                                                                  | 27900                                                        | 28.0                                            | 20.0                                                                               | 18.0                                        |
| 22... | 1645 | 5.4                                            | 7.6                                                                  | 26500                                                        | 28.5                                            | 30.0                                                                               | 1.00                                        |
| 22... | 1646 | 5.0                                            | 7.6                                                                  | 26600                                                        | 28.5                                            | 30.0                                                                               | 3.00                                        |
| 22... | 1647 | 5.0                                            | 7.6                                                                  | 26900                                                        | 28.5                                            | 30.0                                                                               | 6.00                                        |
| 22... | 1648 | 4.5                                            | 7.6                                                                  | 27100                                                        | 28.0                                            | 30.0                                                                               | 9.00                                        |
| 22... | 1649 | 4.0                                            | 7.5                                                                  | 28100                                                        | 28.0                                            | 30.0                                                                               | 11.0                                        |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## JOURDAN RIVER TIDAL CYCLE STUDY

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481660 JOURDAN RIVER NEAR BAY ST LOUIS, MS

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 21... | 1635 | 3.1                                            | 6.4                                                                  | 5010                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 21... | 1636 | 2.9                                            | 6.4                                                                  | 5230                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 1637 | .3                                             | 6.7                                                                  | 18800                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 1638 | .1                                             | 6.8                                                                  | 21100                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 1639 | .1                                             | 6.9                                                                  | 22600                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 1640 | .1                                             | 6.9                                                                  | 22900                                                        | 28.5                                            | 25.0                                                                               | 14.0                                        |
| 21... | 1645 | 6.5                                            | 6.5                                                                  | 5020                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1646 | 2.8                                            | 6.5                                                                  | 5860                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1647 | .2                                             | 6.7                                                                  | 18800                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1648 | .1                                             | 6.8                                                                  | 21500                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1649 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1650 | .1                                             | 6.9                                                                  | 22900                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 1653 | 3.2                                            | 6.5                                                                  | 5090                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1654 | 2.8                                            | 6.5                                                                  | 5720                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1655 | .1                                             | 6.8                                                                  | 18800                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1656 | .1                                             | 6.8                                                                  | 21000                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1657 | .1                                             | 6.9                                                                  | 22900                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 1700 | 3.4                                            | 6.5                                                                  | 5020                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 21... | 1701 | 3.0                                            | 6.5                                                                  | 5310                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 1702 | .1                                             | 6.7                                                                  | 18800                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 1703 | .7                                             | 6.8                                                                  | 21500                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 1704 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 1705 | .1                                             | 6.9                                                                  | 23000                                                        | 28.5                                            | 25.0                                                                               | 14.0                                        |
| 21... | 1710 | 3.3                                            | 6.5                                                                  | 5070                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1711 | 3.1                                            | 6.5                                                                  | 5310                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1712 | .2                                             | 6.7                                                                  | 17900                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1713 | .1                                             | 6.8                                                                  | 21300                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1714 | .1                                             | 6.9                                                                  | 22600                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1715 | .1                                             | 6.9                                                                  | 22800                                                        | 28.5                                            | 50.0                                                                               | 13.0                                        |
| 21... | 1720 | 3.4                                            | 6.6                                                                  | 5090                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1721 | 2.8                                            | 6.5                                                                  | 5620                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1722 | .1                                             | 6.8                                                                  | 17800                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1723 | .1                                             | 6.8                                                                  | 21200                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1724 | .1                                             | 6.9                                                                  | 22200                                                        | 28.5                                            | 75.0                                                                               | 11.0                                        |
| 21... | 1730 | 3.4                                            | 6.5                                                                  | 5000                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 21... | 1731 | 3.0                                            | 6.5                                                                  | 5360                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 1732 | .1                                             | 6.7                                                                  | 18600                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 1733 | .1                                             | 6.8                                                                  | 21300                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 1734 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 1735 | .1                                             | 6.9                                                                  | 22500                                                        | 28.5                                            | 25.0                                                                               | 13.0                                        |
| 21... | 1740 | 3.5                                            | 6.5                                                                  | 4980                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1741 | 2.7                                            | 6.5                                                                  | 5830                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1742 | .1                                             | 6.8                                                                  | 17600                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1743 | .1                                             | 6.9                                                                  | 21200                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1744 | .1                                             | 6.9                                                                  | 22500                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1745 | <.1                                            | 6.9                                                                  | 23000                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 1753 | 3.2                                            | 6.5                                                                  | 5170                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1754 | 2.8                                            | 6.5                                                                  | 5730                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1755 | .1                                             | 6.8                                                                  | 18400                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1756 | .1                                             | 6.9                                                                  | 21300                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1757 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 1805 | 3.4                                            | 6.5                                                                  | 5120                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 21... | 1806 | 3.3                                            | 6.5                                                                  | 5250                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 1807 | .2                                             | 6.7                                                                  | 18800                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 1808 | .1                                             | 6.9                                                                  | 21100                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 1809 | .1                                             | 6.9                                                                  | 22700                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 1810 | .1                                             | 6.9                                                                  | 23000                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 1815 | 3.2                                            | 6.5                                                                  | 5320                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1816 | 2.9                                            | 6.7                                                                  | 5780                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1817 | .1                                             | 6.8                                                                  | 18800                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1818 | .2                                             | 6.8                                                                  | 20600                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1819 | .1                                             | 6.9                                                                  | 22600                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1820 | .1                                             | 6.9                                                                  | 22900                                                        | 28.5                                            | 50.0                                                                               | 14.0                                        |
| 21... | 1830 | 3.0                                            | 6.5                                                                  | 5540                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1831 | 2.8                                            | 6.5                                                                  | 5840                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1832 | .1                                             | 6.8                                                                  | 19500                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1833 | .1                                             | 6.9                                                                  | 21100                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1834 | .1                                             | 6.9                                                                  | 22300                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 1850 | 3.5                                            | 6.5                                                                  | 5200                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 21... | 1851 | 3.0                                            | 6.5                                                                  | 5750                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 1852 | <.1                                            | 6.7                                                                  | 19700                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 1853 | .1                                             | 6.8                                                                  | 21200                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 1854 | .1                                             | 6.9                                                                  | 22200                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 1855 | .1                                             | 6.9                                                                  | 22700                                                        | 28.5                                            | 25.0                                                                               | 14.0                                        |
| 21... | 1900 | 3.2                                            | 6.5                                                                  | 5460                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1901 | 2.9                                            | 6.5                                                                  | 5690                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1902 | .1                                             | 6.7                                                                  | 18000                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1903 | .1                                             | 6.8                                                                  | 21000                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1904 | .1                                             | 6.9                                                                  | 22200                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1905 | .1                                             | 6.9                                                                  | 22800                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 1910 | 3.3                                            | 6.5                                                                  | 5250                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1911 | 3.0                                            | 6.5                                                                  | 5500                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1912 | .1                                             | 6.8                                                                  | 19400                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1913 | .1                                             | 6.9                                                                  | 21400                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1914 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 1915 | <.1                                            | 6.9                                                                  | 22700                                                        | 28.5                                            | 75.0                                                                               | 13.0                                        |
| 21... | 1930 | 3.5                                            | 6.5                                                                  | 5350                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 21... | 1931 | 3.0                                            | 6.5                                                                  | 5570                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 1932 | .3                                             | 6.7                                                                  | 18600                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 1933 | .1                                             | 6.9                                                                  | 21200                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 1934 | .1                                             | 6.9                                                                  | 22500                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 1935 | .1                                             | 6.9                                                                  | 23000                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |

## JORDAN RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481660 JORDAN RIVER NEAR BAY ST LOUIS, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 21... | 1940 | 3.2                                            | 6.5                                                                  | 5330                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 1941 | 2.7                                            | 6.5                                                                  | 5900                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 1942 | .2                                             | 6.7                                                                  | 17800                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 1943 | .1                                             | 6.9                                                                  | 21000                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 1944 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 1945 | .1                                             | 6.9                                                                  | 23000                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 1950 | 3.1                                            | 6.5                                                                  | 5260                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 1951 | 2.7                                            | 6.5                                                                  | 5760                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 1952 | .1                                             | 6.7                                                                  | 18400                                                        | 28.0                                            | 75.0                                                                               | 6.00                                        |
| 21... | 1953 | .1                                             | 6.9                                                                  | 20200                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 1954 | .1                                             | 6.9                                                                  | 22500                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 2035 | 3.4                                            | 6.4                                                                  | 5290                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 2036 | 2.6                                            | 6.4                                                                  | 6160                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 2037 | .2                                             | 6.6                                                                  | 18000                                                        | 28.0                                            | 25.0                                                                               | 6.00                                        |
| 21... | 2038 | .1                                             | 6.7                                                                  | 20600                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 2039 | .1                                             | 6.8                                                                  | 22600                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 2040 | .1                                             | 6.8                                                                  | 22900                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 2044 | 3.2                                            | 6.4                                                                  | 5250                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 2045 | 2.7                                            | 6.4                                                                  | 5970                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 2046 | .1                                             | 6.7                                                                  | 18300                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 2047 | .1                                             | 6.8                                                                  | 21000                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 2048 | .1                                             | 6.8                                                                  | 22400                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 2049 | .1                                             | 6.8                                                                  | 22800                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 2055 | 3.1                                            | 6.4                                                                  | 5260                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 2056 | 2.6                                            | 6.4                                                                  | 5840                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 2057 | .1                                             | 6.7                                                                  | 18600                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 2058 | .1                                             | 6.8                                                                  | 21000                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 2059 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 2100 | .1                                             | 6.9                                                                  | 22600                                                        | 28.5                                            | 75.0                                                                               | 13.0                                        |
| 21... | 2115 | 3.3                                            | 6.3                                                                  | 5350                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 2116 | 2.8                                            | 6.4                                                                  | 5490                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 2117 | .1                                             | 6.6                                                                  | 17300                                                        | 28.0                                            | 25.0                                                                               | 6.00                                        |
| 21... | 2118 | .1                                             | 6.7                                                                  | 23800                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 2119 | .1                                             | 6.8                                                                  | 22400                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 2120 | .1                                             | 6.8                                                                  | 22900                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 2126 | 3.3                                            | 6.5                                                                  | 5290                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 2127 | 2.9                                            | 6.4                                                                  | 5550                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 2128 | .1                                             | 6.7                                                                  | 18700                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 21... | 2129 | .1                                             | 6.8                                                                  | 21200                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 2130 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 2131 | .1                                             | 6.9                                                                  | 22800                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 2136 | 3.3                                            | 6.4                                                                  | 5280                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 2137 | 2.9                                            | 6.4                                                                  | 5500                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 2138 | .1                                             | 6.6                                                                  | 18700                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 2139 | .1                                             | 6.8                                                                  | 21200                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 2140 | .1                                             | 6.9                                                                  | 22500                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 2141 | .1                                             | 6.9                                                                  | 22800                                                        | 28.5                                            | 75.0                                                                               | 13.0                                        |
| 21... | 2150 | 3.2                                            | 6.4                                                                  | 5340                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 2151 | 3.0                                            | 6.4                                                                  | 5440                                                         | 27.5                                            | 25.0                                                                               | 3.00                                        |
| 21... | 2152 | .1                                             | 6.7                                                                  | 20800                                                        | 29.0                                            | 25.0                                                                               | 6.00                                        |
| 21... | 2153 | .1                                             | 6.8                                                                  | 21500                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 2154 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 2155 | .1                                             | 6.9                                                                  | 22900                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 2205 | 3.2                                            | 6.5                                                                  | 5450                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 2206 | 2.8                                            | 6.5                                                                  | 5450                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 2207 | .1                                             | 6.7                                                                  | 19100                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 2208 | .1                                             | 6.8                                                                  | 21600                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 2209 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 2210 | .1                                             | 6.9                                                                  | 22800                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 2220 | 3.2                                            | 6.4                                                                  | 5440                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 21... | 2221 | 2.9                                            | 6.4                                                                  | 5790                                                         | 27.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 2222 | .1                                             | 6.7                                                                  | 19000                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 2223 | .1                                             | 6.8                                                                  | 21300                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 2224 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 2225 | .1                                             | 6.9                                                                  | 22500                                                        | 28.5                                            | 75.0                                                                               | 13.0                                        |
| 21... | 2230 | 3.4                                            | 6.4                                                                  | 5420                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 21... | 2231 | 2.8                                            | 6.4                                                                  | 5830                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 2232 | .1                                             | 6.7                                                                  | 19000                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 2233 | .1                                             | 6.9                                                                  | 21300                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 2234 | .1                                             | 6.9                                                                  | 22500                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 2235 | .1                                             | 6.9                                                                  | 22700                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 2245 | 3.3                                            | 6.5                                                                  | 5490                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 21... | 2246 | 3.3                                            | 6.5                                                                  | 6060                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 2247 | .1                                             | 6.7                                                                  | 18200                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 2248 | .1                                             | 6.8                                                                  | 21100                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 2249 | <.1                                            | 6.9                                                                  | 22600                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 2250 | .1                                             | 6.9                                                                  | 22600                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 2302 | 3.3                                            | 6.6                                                                  | 5750                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 2303 | 3.0                                            | 6.6                                                                  | 6440                                                         | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 21... | 2304 | .1                                             | 6.7                                                                  | 17800                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 21... | 2305 | .1                                             | 6.9                                                                  | 21700                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 2306 | .1                                             | 6.9                                                                  | 22300                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 2307 | .1                                             | 6.9                                                                  | 22500                                                        | 28.5                                            | 75.0                                                                               | 14.0                                        |
| 21... | 2320 | 3.5                                            | 6.5                                                                  | 5950                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 21... | 2321 | 3.3                                            | 6.5                                                                  | 6310                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 21... | 2322 | .1                                             | 6.6                                                                  | 15300                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 21... | 2323 | .1                                             | 6.8                                                                  | 21500                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 21... | 2324 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 21... | 2325 | .1                                             | 6.9                                                                  | 22700                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 21... | 2326 | .1                                             | 6.9                                                                  | 22700                                                        | 28.5                                            | 25.0                                                                               | 16.0                                        |
| 21... | 2337 | 3.5                                            | 6.5                                                                  | 5890                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 21... | 2338 | 3.4                                            | 6.5                                                                  | 6030                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 21... | 2339 | .1                                             | 6.6                                                                  | 16800                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 21... | 2340 | .1                                             | 6.8                                                                  | 21700                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 21... | 2341 | .1                                             | 6.9                                                                  | 22600                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 21... | 2342 | .1                                             | 6.9                                                                  | 22600                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 21... | 2343 | .1                                             | 6.9                                                                  | 22700                                                        | 28.5                                            | 50.0                                                                               | 16.0                                        |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## JOURDAN RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481660 JOURDAN RIVER NEAR BAY ST LOUIS, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 21... | 2350 | 3.2                                            | 6.6                                                                  | 6220                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 21... | 2351 | 3.0                                            | 6.6                                                                  | 6780                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 21... | 2352 | .1                                             | 6.7                                                                  | 16400                                                        | 28.0                                            | 75.0                                                                               | 6.00                                        |
| 21... | 2353 | .1                                             | 6.9                                                                  | 21300                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 21... | 2354 | .1                                             | 6.9                                                                  | 22400                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 21... | 2355 | .1                                             | 6.9                                                                  | 22600                                                        | 28.5                                            | 75.0                                                                               | 14.0                                        |
| 22... | 0105 | 4.2                                            | 6.1                                                                  | 6420                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 0106 | 3.4                                            | 6.2                                                                  | 6830                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 0107 | .2                                             | 6.5                                                                  | 17900                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 0108 | .1                                             | 6.6                                                                  | 21000                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 0109 | .1                                             | 6.6                                                                  | 21600                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 0110 | .1                                             | 6.7                                                                  | 21700                                                        | 28.5                                            | 75.0                                                                               | 13.0                                        |
| 22... | 0120 | 3.4                                            | 6.4                                                                  | 6320                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 0121 | 3.2                                            | 6.4                                                                  | 6950                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 0122 | .2                                             | 6.6                                                                  | 18200                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 0123 | .1                                             | 6.7                                                                  | 21100                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 0124 | .1                                             | 6.7                                                                  | 21600                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 0125 | .1                                             | 6.7                                                                  | 21700                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 22... | 0126 | .1                                             | 6.7                                                                  | 21700                                                        | 28.5                                            | 50.0                                                                               | 16.0                                        |
| 22... | 0135 | 3.4                                            | 6.4                                                                  | 6230                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 0136 | 3.4                                            | 6.4                                                                  | 6900                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 0137 | .1                                             | 6.5                                                                  | 17800                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 0138 | .1                                             | 6.7                                                                  | 21100                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 0139 | .1                                             | 6.7                                                                  | 21600                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 0140 | <.1                                            | 6.7                                                                  | 21800                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 22... | 0150 | 3.5                                            | 6.4                                                                  | 6600                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 0151 | 3.2                                            | 6.4                                                                  | 6950                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 0152 | .1                                             | 6.6                                                                  | 18800                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 0153 | .1                                             | 6.7                                                                  | 21200                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 0154 | <.1                                            | 6.7                                                                  | 21700                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 0155 | .1                                             | 6.7                                                                  | 21800                                                        | 28.5                                            | 75.0                                                                               | 14.0                                        |
| 22... | 0205 | 3.4                                            | 6.4                                                                  | 6850                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 0206 | 3.3                                            | 6.4                                                                  | 7020                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 0207 | .1                                             | 6.6                                                                  | 18900                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 0208 | <.1                                            | 6.7                                                                  | 21200                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 0209 | <.1                                            | 6.7                                                                  | 21700                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 0210 | <.1                                            | 6.7                                                                  | 21800                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 22... | 0211 | <.1                                            | 6.7                                                                  | 21900                                                        | 28.5                                            | 50.0                                                                               | 17.0                                        |
| 22... | 0225 | 3.3                                            | 6.4                                                                  | 6800                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 0226 | 3.2                                            | 6.4                                                                  | 7120                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 0227 | .1                                             | 6.6                                                                  | 18600                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 0228 | <.1                                            | 6.7                                                                  | 21500                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 0229 | <.1                                            | 6.7                                                                  | 21800                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 0230 | <.1                                            | 6.7                                                                  | 21900                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 22... | 0231 | <.1                                            | 6.7                                                                  | 21900                                                        | 28.5                                            | 25.0                                                                               | 16.0                                        |
| 22... | 0243 | 3.4                                            | 6.4                                                                  | 6990                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 22... | 0244 | 3.0                                            | 6.4                                                                  | 7380                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 0245 | .1                                             | 6.6                                                                  | 18100                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 0246 | .1                                             | 6.7                                                                  | 21500                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 0247 | <.1                                            | 6.7                                                                  | 21800                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 0248 | <.1                                            | 6.7                                                                  | 21800                                                        | 28.5                                            | 75.0                                                                               | 14.0                                        |
| 22... | 0257 | 3.6                                            | 6.5                                                                  | 6990                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 0258 | 3.4                                            | 6.5                                                                  | 7170                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 0259 | .1                                             | 6.6                                                                  | 19100                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 0300 | .1                                             | 6.7                                                                  | 21800                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 0301 | <.1                                            | 6.7                                                                  | 21900                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 0302 | <.1                                            | 6.7                                                                  | 22000                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 22... | 0303 | <.1                                            | 6.7                                                                  | 21900                                                        | 28.5                                            | 50.0                                                                               | 17.0                                        |
| 22... | 0312 | 3.5                                            | 6.5                                                                  | 6990                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 0313 | 3.4                                            | 6.4                                                                  | 7170                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 0314 | .1                                             | 6.7                                                                  | 19700                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 0315 | .1                                             | 6.7                                                                  | 21800                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 0316 | <.1                                            | 6.7                                                                  | 21900                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 0317 | <.1                                            | 6.7                                                                  | 22100                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 22... | 0318 | <.1                                            | 6.7                                                                  | 22100                                                        | 28.5                                            | 25.0                                                                               | 16.0                                        |
| 22... | 0335 | 3.6                                            | 6.4                                                                  | 7050                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 0336 | 3.5                                            | 6.4                                                                  | 7500                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 0337 | .1                                             | 6.6                                                                  | 20000                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 0338 | .1                                             | 6.7                                                                  | 21800                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 0339 | .1                                             | 6.7                                                                  | 22000                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 0340 | <.1                                            | 6.7                                                                  | 22100                                                        | 28.5                                            | 75.0                                                                               | 14.0                                        |
| 22... | 0350 | 3.6                                            | 6.4                                                                  | 7110                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 0351 | 3.5                                            | 6.4                                                                  | 7510                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 0352 | .2                                             | 6.6                                                                  | 19700                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 0353 | .1                                             | 6.7                                                                  | 21900                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 0354 | <.1                                            | 6.7                                                                  | 22200                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 0355 | <.1                                            | 6.7                                                                  | 22300                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 22... | 0356 | <.1                                            | 6.7                                                                  | 22300                                                        | 28.5                                            | 50.0                                                                               | 16.0                                        |
| 22... | 0407 | 3.6                                            | 6.4                                                                  | 7160                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 0408 | 3.5                                            | 6.4                                                                  | 7710                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 0409 | .1                                             | 6.6                                                                  | 20000                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 0410 | .1                                             | 6.7                                                                  | 22100                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 0411 | <.1                                            | 6.7                                                                  | 22300                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 0412 | <.1                                            | 6.7                                                                  | 22500                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 22... | 0413 | <.1                                            | 6.7                                                                  | 22600                                                        | 28.5                                            | 25.0                                                                               | 17.0                                        |
| 22... | 0434 | 4.9                                            | 6.6                                                                  | 7100                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 0435 | 3.8                                            | 6.6                                                                  | 7960                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 0436 | .3                                             | 6.7                                                                  | 20400                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 0437 | .1                                             | 6.8                                                                  | 22100                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 0438 | .1                                             | 6.8                                                                  | 22200                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 0439 | <.1                                            | 6.8                                                                  | 22500                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 22... | 0440 | <.1                                            | 6.8                                                                  | 22600                                                        | 28.5                                            | 25.0                                                                               | 17.0                                        |

## JOURDAN RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481660 JOURDAN RIVER NEAR BAY ST LOUIS, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 22... | 0446 | 3.4                                            | 6.5                                                                  | 7110                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 0447 | 3.3                                            | 6.5                                                                  | 7670                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 0448 | .3                                             | 6.7                                                                  | 21400                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 0449 | .1                                             | 6.7                                                                  | 21800                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 0450 | .1                                             | 6.8                                                                  | 22500                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 0451 | .1                                             | 6.8                                                                  | 22600                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 22... | 0452 | .1                                             | 6.8                                                                  | 22600                                                        | 28.5                                            | 50.0                                                                               | 17.0                                        |
| 22... | 0459 | 3.6                                            | 6.5                                                                  | 7060                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 0500 | 3.3                                            | 6.5                                                                  | 8050                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 0501 | .1                                             | 6.7                                                                  | 20800                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 0502 | .1                                             | 6.7                                                                  | 22400                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 0503 | <.1                                            | 6.8                                                                  | 22700                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 0504 | <.1                                            | 6.8                                                                  | 22800                                                        | 28.5                                            | 75.0                                                                               | 14.0                                        |
| 22... | 0522 | 4.1                                            | 6.6                                                                  | 7590                                                         | 27.0                                            | 25.0                                                                               | 1.00                                        |
| 22... | 0523 | 3.8                                            | 6.5                                                                  | 7980                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 0524 | .1                                             | 6.7                                                                  | 20800                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 0525 | .1                                             | 6.8                                                                  | 22300                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 0526 | .1                                             | 6.8                                                                  | 22700                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 0527 | .1                                             | 6.8                                                                  | 22800                                                        | 28.5                                            | 25.0                                                                               | 15.0                                        |
| 22... | 0528 | .1                                             | 6.8                                                                  | 23800                                                        | 28.5                                            | 25.0                                                                               | 17.0                                        |
| 22... | 0538 | 3.6                                            | 6.6                                                                  | 7180                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 0539 | 3.0                                            | 6.5                                                                  | 9060                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 0540 | .5                                             | 6.7                                                                  | 21100                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 0541 | .1                                             | 6.8                                                                  | 22500                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 0542 | .1                                             | 6.8                                                                  | 22800                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 0543 | <.1                                            | 6.8                                                                  | 22900                                                        | 28.5                                            | 50.0                                                                               | 15.0                                        |
| 22... | 0544 | <.1                                            | 6.8                                                                  | 22900                                                        | 28.5                                            | 50.0                                                                               | 18.0                                        |
| 22... | 0550 | 3.5                                            | 6.6                                                                  | 7800                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 0551 | 3.3                                            | 6.5                                                                  | 8630                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 0552 | .1                                             | 6.7                                                                  | 21400                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 0553 | .1                                             | 6.8                                                                  | 22700                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 0554 | <.1                                            | 6.8                                                                  | 23000                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 0555 | <.1                                            | 6.8                                                                  | 23000                                                        | 28.5                                            | 75.0                                                                               | 14.0                                        |
| 22... | 0634 | 4.0                                            | 6.5                                                                  | 7610                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 0635 | 3.7                                            | 6.5                                                                  | 8300                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 0636 | .4                                             | 6.7                                                                  | 21400                                                        | 28.0                                            | 25.0                                                                               | 6.00                                        |
| 22... | 0637 | .2                                             | 6.7                                                                  | 22600                                                        | 28.0                                            | 25.0                                                                               | 9.00                                        |
| 22... | 0638 | .1                                             | 6.8                                                                  | 23000                                                        | 28.0                                            | 25.0                                                                               | 12.0                                        |
| 22... | 0639 | .1                                             | 6.8                                                                  | 23100                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 0640 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 25.0                                                                               | 17.0                                        |
| 22... | 0647 | 3.3                                            | 6.6                                                                  | 7910                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 22... | 0648 | 2.7                                            | 6.6                                                                  | 9590                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 0649 | .5                                             | 6.7                                                                  | 22000                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 22... | 0650 | .1                                             | 6.8                                                                  | 22900                                                        | 28.0                                            | 50.0                                                                               | 9.00                                        |
| 22... | 0651 | .1                                             | 6.8                                                                  | 23100                                                        | 28.0                                            | 50.0                                                                               | 12.0                                        |
| 22... | 0652 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 0653 | .1                                             | 6.8                                                                  | 22200                                                        | 28.0                                            | 50.0                                                                               | 16.0                                        |
| 22... | 0655 | 3.5                                            | 6.6                                                                  | 8010                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 0656 | 3.0                                            | 6.6                                                                  | 9090                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 0657 | .2                                             | 6.7                                                                  | 22300                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 0658 | .1                                             | 6.8                                                                  | 22900                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 22... | 0659 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 22... | 0700 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 22... | 0706 | 4.0                                            | 6.6                                                                  | 7920                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 0707 | 2.9                                            | 6.6                                                                  | 10600                                                        | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 0708 | .8                                             | 6.7                                                                  | 21000                                                        | 28.0                                            | 25.0                                                                               | 6.00                                        |
| 22... | 0709 | .2                                             | 6.8                                                                  | 23000                                                        | 28.0                                            | 25.0                                                                               | 9.00                                        |
| 22... | 0710 | .1                                             | 6.8                                                                  | 23100                                                        | 28.0                                            | 25.0                                                                               | 12.0                                        |
| 22... | 0711 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 0712 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 25.0                                                                               | 17.0                                        |
| 22... | 0716 | 3.3                                            | 6.6                                                                  | 8170                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 0717 | 2.6                                            | 6.6                                                                  | 11100                                                        | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 0718 | .1                                             | 6.2                                                                  | 21600                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 22... | 0719 | .1                                             | 6.3                                                                  | 23000                                                        | 28.0                                            | 50.0                                                                               | 9.00                                        |
| 22... | 0720 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 50.0                                                                               | 12.0                                        |
| 22... | 0721 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 0722 | .1                                             | 6.8                                                                  | 23300                                                        | 28.0                                            | 50.0                                                                               | 17.0                                        |
| 22... | 0725 | 3.6                                            | 6.6                                                                  | 7950                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 0726 | 3.0                                            | 6.6                                                                  | 9870                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 0727 | .4                                             | 6.7                                                                  | 20800                                                        | 28.0                                            | 75.0                                                                               | 6.00                                        |
| 22... | 0728 | .1                                             | 6.8                                                                  | 22800                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 22... | 0729 | <.1                                            | 6.8                                                                  | 23300                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 22... | 0730 | <.1                                            | 6.8                                                                  | 23400                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 22... | 0741 | 3.9                                            | 6.6                                                                  | 8160                                                         | 27.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 0742 | 2.5                                            | 6.6                                                                  | 10400                                                        | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 0743 | .3                                             | 6.7                                                                  | 28000                                                        | 28.0                                            | 25.0                                                                               | 6.00                                        |
| 22... | 0744 | .1                                             | 6.8                                                                  | 22900                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 0745 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 25.0                                                                               | 12.0                                        |
| 22... | 0746 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 0747 | .1                                             | 6.8                                                                  | 23300                                                        | 28.0                                            | 25.0                                                                               | 17.0                                        |
| 22... | 0752 | 3.5                                            | 6.6                                                                  | 8150                                                         | 27.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 0753 | 1.3                                            | 6.6                                                                  | 12100                                                        | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 0754 | .1                                             | 6.7                                                                  | 20900                                                        | 28.0                                            | 50.0                                                                               | 6.00                                        |
| 22... | 0755 | .1                                             | 6.8                                                                  | 22800                                                        | 28.0                                            | 50.0                                                                               | 9.00                                        |
| 22... | 0756 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 50.0                                                                               | 12.0                                        |
| 22... | 0757 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 0758 | .1                                             | 6.8                                                                  | 23300                                                        | 28.0                                            | 50.0                                                                               | 17.0                                        |
| 22... | 0802 | 3.6                                            | 6.6                                                                  | 8000                                                         | 27.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 0803 | 2.2                                            | 6.6                                                                  | 9650                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 0804 | .1                                             | 6.7                                                                  | 21300                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 0805 | .1                                             | 6.8                                                                  | 22900                                                        | 28.0                                            | 75.0                                                                               | 9.00                                        |
| 22... | 0806 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 75.0                                                                               | 12.0                                        |
| 22... | 0807 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 75.0                                                                               | 15.0                                        |
| 22... | 0808 | <.1                                            | 6.8                                                                  | 23200                                                        | 28.0                                            | 75.0                                                                               | 16.0                                        |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## JOURDAN RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481660 JOURDAN RIVER NEAR BAY ST LOUIS, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                         |                                             |
| 22... | 0818 | 3.7                                            | 6.6                                                                  | 8050                                                         | 27.5                                            | 25.0                                                                    | 1.00                                        |
| 22... | 0819 | 1.5                                            | 6.6                                                                  | 13900                                                        | 28.0                                            | 25.0                                                                    | 3.00                                        |
| 22... | 0820 | .3                                             | 6.7                                                                  | 21500                                                        | 28.0                                            | 25.0                                                                    | 6.00                                        |
| 22... | 0821 | .1                                             | 6.8                                                                  | 22800                                                        | 28.0                                            | 25.0                                                                    | 9.00                                        |
| 22... | 0822 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 25.0                                                                    | 12.0                                        |
| 22... | 0823 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 25.0                                                                    | 15.0                                        |
| 22... | 0824 | .1                                             | 6.8                                                                  | 23300                                                        | 28.0                                            | 25.0                                                                    | 17.0                                        |
| 22... | 0826 | 3.4                                            | 6.6                                                                  | 8000                                                         | 27.5                                            | 50.0                                                                    | 1.00                                        |
| 22... | 0827 | 1.2                                            | 6.6                                                                  | 13800                                                        | 28.0                                            | 50.0                                                                    | 3.00                                        |
| 22... | 0828 | .4                                             | 6.7                                                                  | 21700                                                        | 28.5                                            | 50.0                                                                    | 6.00                                        |
| 22... | 0829 | .1                                             | 6.8                                                                  | 22700                                                        | 28.5                                            | 50.0                                                                    | 9.00                                        |
| 22... | 0830 | .1                                             | 6.8                                                                  | 23100                                                        | 28.0                                            | 50.0                                                                    | 12.0                                        |
| 22... | 0831 | <.1                                            | 6.8                                                                  | 23300                                                        | 28.0                                            | 50.0                                                                    | 15.0                                        |
| 22... | 0832 | <.1                                            | 6.8                                                                  | 23300                                                        | 28.0                                            | 50.0                                                                    | 17.0                                        |
| 22... | 0834 | 3.2                                            | 6.5                                                                  | 8200                                                         | 27.5                                            | 75.0                                                                    | 1.00                                        |
| 22... | 0835 | 1.4                                            | 6.6                                                                  | 13500                                                        | 28.0                                            | 75.0                                                                    | 3.00                                        |
| 22... | 0836 | .4                                             | 6.7                                                                  | 21600                                                        | 28.5                                            | 75.0                                                                    | 6.00                                        |
| 22... | 0837 | .1                                             | 6.8                                                                  | 22500                                                        | 28.5                                            | 75.0                                                                    | 9.00                                        |
| 22... | 0838 | .1                                             | 6.8                                                                  | 22900                                                        | 28.5                                            | 75.0                                                                    | 12.0                                        |
| 22... | 0839 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 75.0                                                                    | 15.0                                        |
| 22... | 0844 | 4.0                                            | 6.7                                                                  | 7860                                                         | 27.5                                            | 25.0                                                                    | 1.00                                        |
| 22... | 0845 | 2.5                                            | 6.6                                                                  | 10300                                                        | 27.5                                            | 25.0                                                                    | 3.00                                        |
| 22... | 0846 | .8                                             | 6.7                                                                  | 21200                                                        | 28.5                                            | 25.0                                                                    | 6.00                                        |
| 22... | 0847 | .2                                             | 6.8                                                                  | 22500                                                        | 28.5                                            | 25.0                                                                    | 9.00                                        |
| 22... | 0848 | .2                                             | 6.9                                                                  | 22900                                                        | 28.5                                            | 25.0                                                                    | 12.0                                        |
| 22... | 0849 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 25.0                                                                    | 15.0                                        |
| 22... | 0850 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 25.0                                                                    | 16.0                                        |
| 22... | 0854 | 2.8                                            | 6.6                                                                  | 8430                                                         | 27.5                                            | 50.0                                                                    | 1.00                                        |
| 22... | 0855 | 2.2                                            | 6.6                                                                  | 10600                                                        | 28.0                                            | 50.0                                                                    | 3.00                                        |
| 22... | 0856 | .3                                             | 6.7                                                                  | 25100                                                        | 28.5                                            | 50.0                                                                    | 6.00                                        |
| 22... | 0857 | .1                                             | 6.8                                                                  | 22400                                                        | 28.5                                            | 50.0                                                                    | 9.00                                        |
| 22... | 0858 | .1                                             | 6.8                                                                  | 22900                                                        | 28.5                                            | 50.0                                                                    | 12.0                                        |
| 22... | 0859 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 50.0                                                                    | 15.0                                        |
| 22... | 0900 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 50.0                                                                    | 16.0                                        |
| 22... | 0902 | 3.3                                            | 6.5                                                                  | 7820                                                         | 27.5                                            | 75.0                                                                    | 1.00                                        |
| 22... | 0903 | 1.8                                            | 6.6                                                                  | 14500                                                        | 28.0                                            | 75.0                                                                    | 3.00                                        |
| 22... | 0904 | .3                                             | 6.7                                                                  | 21000                                                        | 28.5                                            | 75.0                                                                    | 6.00                                        |
| 22... | 0905 | .1                                             | 6.8                                                                  | 22400                                                        | 28.5                                            | 75.0                                                                    | 9.00                                        |
| 22... | 0906 | .1                                             | 6.8                                                                  | 22900                                                        | 28.5                                            | 75.0                                                                    | 12.0                                        |
| 22... | 0907 | .1                                             | 6.8                                                                  | 23100                                                        | 28.0                                            | 75.0                                                                    | 15.0                                        |
| 22... | 0908 | .1                                             | 6.8                                                                  | 23200                                                        | 28.0                                            | 75.0                                                                    | 17.0                                        |
| 22... | 1000 | 3.0                                            | 6.4                                                                  | 8670                                                         | 28.0                                            | 25.0                                                                    | 1.00                                        |
| 22... | 1001 | 2.4                                            | 6.4                                                                  | 10300                                                        | 28.0                                            | 25.0                                                                    | 3.00                                        |
| 22... | 1002 | .2                                             | 6.6                                                                  | 21400                                                        | 28.5                                            | 25.0                                                                    | 6.00                                        |
| 22... | 1003 | .1                                             | 6.7                                                                  | 22400                                                        | 28.5                                            | 25.0                                                                    | 9.00                                        |
| 22... | 1004 | .1                                             | 6.7                                                                  | 22800                                                        | 28.5                                            | 25.0                                                                    | 12.0                                        |
| 22... | 1005 | .1                                             | 6.7                                                                  | 23600                                                        | 28.0                                            | 25.0                                                                    | 15.0                                        |
| 22... | 1006 | .1                                             | 6.7                                                                  | 23600                                                        | 28.0                                            | 25.0                                                                    | 16.0                                        |
| 22... | 1010 | 2.8                                            | 6.5                                                                  | 9220                                                         | 28.0                                            | 50.0                                                                    | 1.00                                        |
| 22... | 1011 | 2.2                                            | 6.5                                                                  | 10500                                                        | 28.0                                            | 50.0                                                                    | 3.00                                        |
| 22... | 1012 | .2                                             | 6.7                                                                  | 20800                                                        | 28.5                                            | 50.0                                                                    | 6.00                                        |
| 22... | 1013 | .1                                             | 6.7                                                                  | 22100                                                        | 28.5                                            | 50.0                                                                    | 9.00                                        |
| 22... | 1014 | .1                                             | 6.8                                                                  | 22800                                                        | 28.5                                            | 50.0                                                                    | 12.0                                        |
| 22... | 1015 | .1                                             | 6.8                                                                  | 23600                                                        | 28.0                                            | 50.0                                                                    | 15.0                                        |
| 22... | 1016 | .1                                             | 6.8                                                                  | 23700                                                        | 28.0                                            | 50.0                                                                    | 17.0                                        |
| 22... | 1020 | 2.7                                            | 6.6                                                                  | 9870                                                         | 28.0                                            | 75.0                                                                    | 1.00                                        |
| 22... | 1021 | 1.5                                            | 6.6                                                                  | 13000                                                        | 28.0                                            | 75.0                                                                    | 3.00                                        |
| 22... | 1022 | .1                                             | 6.7                                                                  | 21800                                                        | 28.5                                            | 75.0                                                                    | 6.00                                        |
| 22... | 1023 | .1                                             | 6.8                                                                  | 22200                                                        | 28.5                                            | 75.0                                                                    | 9.00                                        |
| 22... | 1024 | .1                                             | 6.8                                                                  | 22600                                                        | 28.5                                            | 75.0                                                                    | 12.0                                        |
| 22... | 1025 | .1                                             | 6.8                                                                  | 23300                                                        | 28.5                                            | 75.0                                                                    | 14.0                                        |
| 22... | 1035 | 2.7                                            | 6.5                                                                  | 9010                                                         | 28.0                                            | 25.0                                                                    | 1.00                                        |
| 22... | 1036 | 2.4                                            | 6.5                                                                  | 20400                                                        | 28.0                                            | 25.0                                                                    | 3.00                                        |
| 22... | 1037 | .2                                             | 6.7                                                                  | 20900                                                        | 28.5                                            | 25.0                                                                    | 6.00                                        |
| 22... | 1038 | .1                                             | 6.8                                                                  | 22300                                                        | 28.5                                            | 25.0                                                                    | 9.00                                        |
| 22... | 1039 | .1                                             | 6.8                                                                  | 22700                                                        | 28.5                                            | 25.0                                                                    | 12.0                                        |
| 22... | 1040 | .1                                             | 6.8                                                                  | 23400                                                        | 28.0                                            | 25.0                                                                    | 15.0                                        |
| 22... | 1041 | .1                                             | 6.8                                                                  | 23700                                                        | 28.0                                            | 25.0                                                                    | 16.0                                        |
| 22... | 1046 | 2.7                                            | 6.5                                                                  | 8340                                                         | 28.0                                            | 50.0                                                                    | 1.00                                        |
| 22... | 1047 | 2.2                                            | 6.5                                                                  | 10600                                                        | 28.0                                            | 50.0                                                                    | 3.00                                        |
| 22... | 1048 | .1                                             | 6.7                                                                  | 21300                                                        | 28.5                                            | 50.0                                                                    | 6.00                                        |
| 22... | 1049 | .1                                             | 6.8                                                                  | 22100                                                        | 28.5                                            | 50.0                                                                    | 9.00                                        |
| 22... | 1050 | .1                                             | 6.8                                                                  | 22800                                                        | 28.5                                            | 50.0                                                                    | 12.0                                        |
| 22... | 1051 | .1                                             | 6.8                                                                  | 23600                                                        | 28.0                                            | 50.0                                                                    | 15.0                                        |
| 22... | 1052 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                    | 17.0                                        |
| 22... | 1100 | 2.8                                            | 6.5                                                                  | 8880                                                         | 28.0                                            | 75.0                                                                    | 1.00                                        |
| 22... | 1101 | 2.0                                            | 6.5                                                                  | 11300                                                        | 28.0                                            | 75.0                                                                    | 3.00                                        |
| 22... | 1102 | .1                                             | 6.7                                                                  | 21300                                                        | 28.5                                            | 75.0                                                                    | 6.00                                        |
| 22... | 1103 | .1                                             | 6.8                                                                  | 21800                                                        | 28.5                                            | 75.0                                                                    | 9.00                                        |
| 22... | 1104 | .1                                             | 6.8                                                                  | 22400                                                        | 28.5                                            | 75.0                                                                    | 12.0                                        |
| 22... | 1105 | .1                                             | 6.8                                                                  | 23600                                                        | 28.0                                            | 75.0                                                                    | 14.0                                        |
| 22... | 1115 | 2.7                                            | 6.5                                                                  | 8620                                                         | 28.0                                            | 25.0                                                                    | 1.00                                        |
| 22... | 1116 | 2.4                                            | 6.5                                                                  | 9440                                                         | 28.0                                            | 25.0                                                                    | 3.00                                        |
| 22... | 1117 | .1                                             | 6.7                                                                  | 21000                                                        | 28.5                                            | 25.0                                                                    | 6.00                                        |
| 22... | 1118 | .1                                             | 6.8                                                                  | 22200                                                        | 28.5                                            | 25.0                                                                    | 9.00                                        |
| 22... | 1119 | .1                                             | 6.8                                                                  | 22500                                                        | 28.5                                            | 25.0                                                                    | 12.0                                        |
| 22... | 1120 | <.1                                            | 6.8                                                                  | 23600                                                        | 28.0                                            | 25.0                                                                    | 15.0                                        |
| 22... | 1121 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                    | 16.0                                        |
| 22... | 1130 | 2.7                                            | 6.5                                                                  | 7890                                                         | 28.0                                            | 50.0                                                                    | 1.00                                        |
| 22... | 1131 | 2.2                                            | 6.5                                                                  | 10100                                                        | 28.0                                            | 50.0                                                                    | 3.00                                        |
| 22... | 1132 | .2                                             | 6.7                                                                  | 20800                                                        | 28.5                                            | 50.0                                                                    | 6.00                                        |
| 22... | 1133 | .1                                             | 6.7                                                                  | 21700                                                        | 28.5                                            | 50.0                                                                    | 9.00                                        |
| 22... | 1134 | .1                                             | 6.8                                                                  | 22500                                                        | 28.5                                            | 50.0                                                                    | 12.0                                        |
| 22... | 1135 | .1                                             | 6.8                                                                  | 23700                                                        | 28.0                                            | 50.0                                                                    | 15.0                                        |
| 22... | 1136 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                    | 17.0                                        |

## JOURDAN RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481660 JOURDAN RIVER NEAR BAY ST LOUIS, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 22... | 1140 | 2.7                                            | 6.5                                                                  | 8470                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 22... | 1141 | 2.4                                            | 6.5                                                                  | 9800                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 1142 | .1                                             | 6.7                                                                  | 20400                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 1143 | <.1                                            | 6.8                                                                  | 21400                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 1144 | <.1                                            | 6.8                                                                  | 22200                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 1145 | <.1                                            | 6.8                                                                  | 23400                                                        | 28.5                                            | 75.0                                                                               | 15.0                                        |
| 22... | 1155 | 2.6                                            | 6.4                                                                  | 8520                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 22... | 1156 | 2.3                                            | 6.5                                                                  | 9640                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 1157 | .1                                             | 6.6                                                                  | 20400                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 1158 | .1                                             | 6.8                                                                  | 21900                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 1159 | <.1                                            | 6.8                                                                  | 22300                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 1200 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 1201 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 16.0                                        |
| 22... | 1210 | 2.7                                            | 6.5                                                                  | 8140                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 22... | 1211 | 2.5                                            | 6.5                                                                  | 9440                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 1212 | .1                                             | 6.6                                                                  | 20800                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 1213 | .1                                             | 6.7                                                                  | 21500                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 1214 | <.1                                            | 6.8                                                                  | 22400                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 1215 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 1216 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 16.0                                        |
| 22... | 1220 | 2.7                                            | 6.5                                                                  | 8310                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 22... | 1221 | 2.3                                            | 6.5                                                                  | 9510                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 1222 | .1                                             | 6.7                                                                  | 19800                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 1223 | .1                                             | 6.7                                                                  | 21300                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 1224 | .1                                             | 6.8                                                                  | 22200                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 1225 | <.1                                            | 6.8                                                                  | 23400                                                        | 28.0                                            | 75.0                                                                               | 14.0                                        |
| 22... | 1235 | 2.6                                            | 6.4                                                                  | 8160                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 22... | 1236 | 2.2                                            | 6.4                                                                  | 9280                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 1237 | .1                                             | 6.6                                                                  | 20900                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 1238 | .1                                             | 6.7                                                                  | 21900                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 1239 | .1                                             | 6.7                                                                  | 22100                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 1240 | .1                                             | 6.8                                                                  | 23700                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 1241 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 16.0                                        |
| 22... | 1250 | 2.6                                            | 6.4                                                                  | 8230                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 22... | 1251 | 2.0                                            | 6.5                                                                  | 9910                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 1252 | .1                                             | 6.7                                                                  | 20400                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 1253 | .1                                             | 6.7                                                                  | 21600                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 1254 | <.1                                            | 6.8                                                                  | 22700                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 1255 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 1256 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 16.0                                        |
| 22... | 1300 | 2.6                                            | 6.5                                                                  | 8390                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 22... | 1301 | 2.0                                            | 6.5                                                                  | 9780                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 1302 | .1                                             | 6.6                                                                  | 19300                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 1303 | .1                                             | 6.7                                                                  | 21200                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 1304 | <.1                                            | 6.8                                                                  | 22500                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 1305 | <.1                                            | 6.8                                                                  | 23600                                                        | 28.0                                            | 75.0                                                                               | 14.0                                        |
| 22... | 1315 | 2.6                                            | 6.4                                                                  | 8430                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 22... | 1316 | 1.7                                            | 6.4                                                                  | 10100                                                        | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 1317 | .1                                             | 6.6                                                                  | 20000                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 1318 | .1                                             | 6.7                                                                  | 21500                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 1319 | .1                                             | 6.8                                                                  | 23300                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 1320 | .1                                             | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 1321 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 16.0                                        |
| 22... | 1330 | 2.4                                            | 6.4                                                                  | 8410                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 22... | 1331 | 2.2                                            | 6.4                                                                  | 9360                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 1332 | .1                                             | 6.7                                                                  | 20400                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 1333 | <.1                                            | 6.7                                                                  | 21700                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 1334 | <.1                                            | 6.8                                                                  | 22200                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 1335 | <.1                                            | 6.8                                                                  | 23700                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 1336 | <.1                                            | 6.8                                                                  | 23900                                                        | 28.0                                            | 50.0                                                                               | 16.0                                        |
| 22... | 1340 | 2.5                                            | 6.4                                                                  | 8650                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 22... | 1341 | 2.3                                            | 6.4                                                                  | 9090                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 1342 | .1                                             | 6.6                                                                  | 19000                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 1343 | .1                                             | 6.7                                                                  | 21100                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 1344 | <.1                                            | 6.8                                                                  | 22500                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 1345 | <.1                                            | 6.8                                                                  | 23100                                                        | 28.5                                            | 75.0                                                                               | 13.0                                        |
| 22... | 1350 | 2.6                                            | 6.4                                                                  | 8050                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 22... | 1351 | 2.1                                            | 6.4                                                                  | 9230                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 1352 | .1                                             | 6.6                                                                  | 20400                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 1353 | .1                                             | 6.7                                                                  | 21300                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 1354 | .1                                             | 6.7                                                                  | 22600                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 1355 | .1                                             | 6.8                                                                  | 23700                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 1356 | .1                                             | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 16.0                                        |
| 22... | 1400 | 2.6                                            | 6.4                                                                  | 7880                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 22... | 1401 | 2.1                                            | 6.4                                                                  | 8860                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 1402 | .1                                             | 6.6                                                                  | 18500                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 1403 | <.1                                            | 6.7                                                                  | 21300                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 1404 | <.1                                            | 6.8                                                                  | 22200                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 1405 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 1406 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 16.0                                        |
| 22... | 1415 | 2.9                                            | 6.4                                                                  | 8560                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 22... | 1416 | 2.1                                            | 6.4                                                                  | 9500                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 1417 | .1                                             | 6.6                                                                  | 19200                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 1418 | .1                                             | 6.7                                                                  | 21300                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 1419 | <.1                                            | 6.8                                                                  | 23300                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 1430 | 2.6                                            | 6.4                                                                  | 8110                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 22... | 1431 | 2.4                                            | 6.4                                                                  | 8390                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 1432 | .1                                             | 6.7                                                                  | 19600                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 1433 | .1                                             | 6.7                                                                  | 21300                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 1434 | <.1                                            | 6.8                                                                  | 22700                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 1435 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## JOURDAN RIVER TIDAL CYCLE STUDY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

02481660 JOURDAN RIVER NEAR BAY ST LOUIS, MS--Continued

| DATE  | TIME | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK)<br>(00002) | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) |
|-------|------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------|
| SEP   |      |                                                |                                                                      |                                                              |                                                 |                                                                                    |                                             |
| 22... | 1440 | 2.4                                            | 6.4                                                                  | 8210                                                         | 28.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 1441 | 2.1                                            | 6.4                                                                  | 8850                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 1442 | .1                                             | 6.6                                                                  | 18700                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 1443 | .1                                             | 6.7                                                                  | 21300                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 1444 | <.1                                            | 6.8                                                                  | 22900                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 1445 | <.1                                            | 6.8                                                                  | 23900                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 1446 | <.1                                            | 6.8                                                                  | 23900                                                        | 28.0                                            | 50.0                                                                               | 16.0                                        |
| 22... | 1450 | 2.6                                            | 6.4                                                                  | 8410                                                         | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 1451 | 1.8                                            | 6.5                                                                  | 10400                                                        | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 1452 | .1                                             | 6.6                                                                  | 19700                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 1453 | .1                                             | 6.7                                                                  | 21100                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 1454 | <.1                                            | 6.8                                                                  | 23200                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 1455 | <.1                                            | 6.8                                                                  | 23600                                                        | 28.5                                            | 75.0                                                                               | 13.0                                        |
| 22... | 1505 | 2.5                                            | 6.4                                                                  | 8390                                                         | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 1506 | 2.2                                            | 6.4                                                                  | 8630                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 1507 | .1                                             | 6.6                                                                  | 18200                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 1508 | .1                                             | 6.7                                                                  | 20600                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 1509 | .1                                             | 6.7                                                                  | 23000                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 1510 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 1511 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 16.0                                        |
| 22... | 1515 | 2.6                                            | 6.4                                                                  | 8020                                                         | 28.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 1516 | 2.3                                            | 6.4                                                                  | 8610                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 1517 | .1                                             | 6.6                                                                  | 18600                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 1518 | .1                                             | 6.7                                                                  | 21300                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 1519 | <.1                                            | 6.8                                                                  | 22800                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 1520 | <.1                                            | 6.8                                                                  | 23700                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 1530 | 2.6                                            | 6.4                                                                  | 8030                                                         | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 1531 | 2.3                                            | 6.4                                                                  | 8670                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 1532 | .1                                             | 6.5                                                                  | 18600                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 1533 | .1                                             | 6.7                                                                  | 21100                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 1534 | <.1                                            | 6.8                                                                  | 23200                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 1535 | <.1                                            | 6.8                                                                  | 23600                                                        | 28.0                                            | 75.0                                                                               | 13.0                                        |
| 22... | 1545 | 2.7                                            | 6.3                                                                  | 8000                                                         | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 1546 | 2.3                                            | 6.4                                                                  | 8400                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 1547 | .1                                             | 6.5                                                                  | 18700                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 1548 | .1                                             | 6.7                                                                  | 21000                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 1549 | .1                                             | 6.7                                                                  | 22600                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 1550 | .1                                             | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 1555 | 2.4                                            | 6.4                                                                  | 7830                                                         | 28.5                                            | 50.0                                                                               | 1.00                                        |
| 22... | 1556 | 2.2                                            | 6.4                                                                  | 8720                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 1557 | .1                                             | 6.6                                                                  | 19200                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 1558 | .1                                             | 6.7                                                                  | 21200                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 1559 | .1                                             | 6.8                                                                  | 23300                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 1600 | <.1                                            | 6.8                                                                  | 23600                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 1601 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 16.0                                        |
| 22... | 1605 | 2.6                                            | 6.4                                                                  | 7960                                                         | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 1606 | 2.1                                            | 6.4                                                                  | 8780                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 1607 | .1                                             | 6.6                                                                  | 19100                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 1608 | .1                                             | 6.7                                                                  | 21300                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 1609 | <.1                                            | 6.8                                                                  | 23100                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 1610 | <.1                                            | 6.8                                                                  | 23600                                                        | 28.0                                            | 75.0                                                                               | 13.0                                        |
| 22... | 1625 | 2.5                                            | 6.4                                                                  | 7770                                                         | 28.5                                            | 25.0                                                                               | 1.00                                        |
| 22... | 1626 | 2.2                                            | 6.4                                                                  | 8600                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 1627 | .1                                             | 6.6                                                                  | 19000                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 1628 | .1                                             | 6.7                                                                  | 21500                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 1629 | .1                                             | 6.7                                                                  | 22800                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 1630 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 1635 | 2.5                                            | 6.4                                                                  | 7500                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 22... | 1636 | 2.3                                            | 6.4                                                                  | 8200                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 1637 | .1                                             | 6.6                                                                  | 18800                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 1638 | .1                                             | 6.7                                                                  | 21700                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 1639 | <.1                                            | 6.8                                                                  | 23400                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 1640 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 1641 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 16.0                                        |
| 22... | 1645 | 2.5                                            | 6.4                                                                  | 8310                                                         | 28.5                                            | 75.0                                                                               | 1.00                                        |
| 22... | 1646 | 2.3                                            | 6.4                                                                  | 8450                                                         | 28.5                                            | 75.0                                                                               | 3.00                                        |
| 22... | 1647 | .1                                             | 6.6                                                                  | 19200                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 1648 | .1                                             | 9.7                                                                  | 21200                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 1649 | <.1                                            | 6.8                                                                  | 23100                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 1650 | <.1                                            | 6.8                                                                  | 23200                                                        | 28.5                                            | 75.0                                                                               | 13.0                                        |
| 22... | 1700 | 2.5                                            | 6.4                                                                  | 7760                                                         | 28.0                                            | 25.0                                                                               | 1.00                                        |
| 22... | 1701 | 2.5                                            | 6.4                                                                  | 7890                                                         | 28.0                                            | 25.0                                                                               | 3.00                                        |
| 22... | 1702 | .1                                             | 6.5                                                                  | 19200                                                        | 28.5                                            | 25.0                                                                               | 6.00                                        |
| 22... | 1703 | .1                                             | 6.7                                                                  | 20800                                                        | 28.5                                            | 25.0                                                                               | 9.00                                        |
| 22... | 1704 | .1                                             | 6.7                                                                  | 22600                                                        | 28.5                                            | 25.0                                                                               | 12.0                                        |
| 22... | 1705 | .1                                             | 6.8                                                                  | 23600                                                        | 28.0                                            | 25.0                                                                               | 15.0                                        |
| 22... | 1710 | 2.5                                            | 6.4                                                                  | 7680                                                         | 28.0                                            | 50.0                                                                               | 1.00                                        |
| 22... | 1711 | 2.2                                            | 6.4                                                                  | 8480                                                         | 28.0                                            | 50.0                                                                               | 3.00                                        |
| 22... | 1712 | .1                                             | 6.6                                                                  | 18900                                                        | 28.5                                            | 50.0                                                                               | 6.00                                        |
| 22... | 1713 | .1                                             | 6.7                                                                  | 20800                                                        | 28.5                                            | 50.0                                                                               | 9.00                                        |
| 22... | 1714 | <.1                                            | 6.7                                                                  | 22800                                                        | 28.5                                            | 50.0                                                                               | 12.0                                        |
| 22... | 1715 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 15.0                                        |
| 22... | 1716 | <.1                                            | 6.8                                                                  | 23800                                                        | 28.0                                            | 50.0                                                                               | 16.0                                        |
| 22... | 1720 | 2.5                                            | 6.4                                                                  | 7740                                                         | 28.0                                            | 75.0                                                                               | 1.00                                        |
| 22... | 1721 | 2.1                                            | 6.4                                                                  | 8470                                                         | 28.0                                            | 75.0                                                                               | 3.00                                        |
| 22... | 1722 | .1                                             | 6.6                                                                  | 17600                                                        | 28.5                                            | 75.0                                                                               | 6.00                                        |
| 22... | 1723 | .1                                             | 6.7                                                                  | 20800                                                        | 28.5                                            | 75.0                                                                               | 9.00                                        |
| 22... | 1724 | <.1                                            | 6.8                                                                  | 22600                                                        | 28.5                                            | 75.0                                                                               | 12.0                                        |
| 22... | 1725 | <.1                                            | 6.8                                                                  | 23100                                                        | 28.0                                            | 75.0                                                                               | 13.0                                        |

## MISSISSIPPI COASTAL SALINITY STUDY

WATER QUALITY DATA, FEBRUARY 1999 TO SEPTEMBER 2000

02480212 PASCAGOULA RIVER AT MILE 1 AT PASCAGOULA, MS

| DATE     | TIME | GAGE<br>HEIGHT<br>(FEET)<br>(00065) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SALIN-<br>ITY<br>(PPT)<br>(00480) |
|----------|------|-------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|-----------------------------------|
| NOV 1999 |      |                                     |                                                              |                                                 |                                                                |                                   |
| 17...    | 1645 | 1.05                                | 44900                                                        | 19.0                                            | 17000                                                          | 33.0                              |
| DEC      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 14...    | 1130 | .55                                 | 38700                                                        | 16.5                                            | 14000                                                          | 26.0                              |
| JAN 2000 |      |                                     |                                                              |                                                 |                                                                |                                   |
| 24...    | 1355 | .03                                 | 45500                                                        | 15.0                                            | 18000                                                          | 33.0                              |
| MAR      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 01...    | 0840 | .80                                 | 39500                                                        | 19.5                                            | 13000                                                          | 26.0                              |
| APR      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 11...    | 0800 | 1.20                                | --                                                           | 19.5                                            | 14000                                                          | 28.0                              |
| MAY      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 24...    | 1630 | 1.80                                | 28200                                                        | 29.5                                            | 9700                                                           | 18.0                              |
| JUN      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 21...    | 1155 | 2.10                                | 41800                                                        | 29.5                                            | 17000                                                          | 31.0                              |
| JUL      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 12...    | 1540 | 1.75                                | 27000                                                        | 30.5                                            | 14000                                                          | 25.0                              |
| AUG      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 08...    | 1355 | 1.10                                | 31000                                                        | 31.0                                            | 16000                                                          | 30.0                              |
| SEP      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 13...    | 1630 | 1.70                                | 40300                                                        | 29.5                                            | 16000                                                          | 30.0                              |

02481300 BACK BAY OF BILOXI AT OCEAN SPRINGS, MS

| DATE     | TIME | GAGE<br>HEIGHT<br>(FEET)<br>(00065) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SALIN-<br>ITY<br>(PPT)<br>(00480) |
|----------|------|-------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|-----------------------------------|
| DEC 1999 |      |                                     |                                                              |                                                 |                                                                |                                   |
| 14...    | 1255 | .15                                 | 40100                                                        | 16.5                                            | 15000                                                          | 28.0                              |
| JAN 2000 |      |                                     |                                                              |                                                 |                                                                |                                   |
| 24...    | 1600 | .15                                 | 32900                                                        | 14.0                                            | 11000                                                          | 21.0                              |
| FEB      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 29...    | 1630 | 1.47                                | 39600                                                        | 20.0                                            | 14000                                                          | 26.0                              |
| APR      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 11...    | 0915 | 1.03                                | 24600                                                        | 19.0                                            | 7700                                                           | 15.0                              |
| MAY      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 24...    | 1740 | --                                  | 31400                                                        | 29.0                                            | --                                                             | --                                |

301104089253400 U.S. COAST GUARD ST. JOSEPH ISLAND LIGHT 22

| DATE     | TIME | GAGE<br>HEIGHT<br>(FEET)<br>(00065) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SALIN-<br>ITY<br>(PPT)<br>(00480) |
|----------|------|-------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|-----------------------------------|
| JUL 2000 |      |                                     |                                                              |                                                 |                                                                |                                   |
| 11...    | 1500 | 2.56                                | 29000                                                        | 31.5                                            | 10000                                                          | 19.0                              |
| AUG      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 09...    | 0845 | 4.05                                | 38100                                                        | 30.0                                            | 13000                                                          | 25.0                              |
| SEP      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 14...    | 0840 | 3.95                                | 38800                                                        | 29.0                                            | 14000                                                          | 25.0                              |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI COASTAL SALINITY STUDY--Continued

WATER QUALITY DATA, FEBRUARY 1999 TO SEPTEMBER 2000

301429089145600 U.S. COAST GUARD MERRILL SHELL BANK LIGHT

| DATE     | TIME | GAGE<br>HEIGHT<br>(FEET)<br>(00065) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SALIN-<br>ITY<br>(PPT)<br>(00480) |
|----------|------|-------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|-----------------------------------|
| FEB 1999 |      |                                     |                                                              |                                                 |                                                                |                                   |
| 18...    | 1400 | .60                                 | 24800                                                        | 16.5                                            | 8200                                                           | 15.1                              |
| APR      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 02...    | 0935 | .97                                 | 25200                                                        | 19.5                                            | 6800                                                           | 13.0                              |
| MAY      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 07...    | 1245 | 1.72                                | 33700                                                        | 25.5                                            | 12000                                                          | 23.0                              |
| JUN      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 15...    | 1430 | 1.43                                | 31500                                                        | 30.0                                            | 11000                                                          | 20.0                              |
| JUL      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 27...    | 1115 | 1.28                                | 31800                                                        | 30.0                                            | 11000                                                          | 21.0                              |
| AUG      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 24...    | 1210 | 1.33                                | 39000                                                        | 31.0                                            | 14000                                                          | 27.0                              |
| OCT      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 13...    | 1705 | .92                                 | 39700                                                        | 25.5                                            | 15000                                                          | 27.0                              |
| NOV      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 18...    | 1020 | .66                                 | 42600                                                        | 18.0                                            | 16000                                                          | 29.0                              |
| DEC      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 14...    | 1545 | -.44                                | 39900                                                        | 16.5                                            | 15000                                                          | 27.0                              |
| JAN 2000 |      |                                     |                                                              |                                                 |                                                                |                                   |
| 25...    | 0900 | -.29                                | 34000                                                        | 11.5                                            | 13000                                                          | 24.0                              |
| FEB      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 29...    | 1310 | .71                                 | 37900                                                        | 19.0                                            | 13000                                                          | 25.0                              |
| APR      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 10...    | 1400 | .10                                 | 39400                                                        | 19.0                                            | 14000                                                          | 27.0                              |
| MAY      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 25...    | 1100 | .92                                 | 35100                                                        | 28.0                                            | 13000                                                          | 23.0                              |
| JUN      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 22...    | 1030 | .26                                 | 36600                                                        | 29.0                                            | 13000                                                          | 24.0                              |
| JUL      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 12...    | 0830 | .86                                 | 39200                                                        | 30.5                                            | 14000                                                          | 26.0                              |
| AUG      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 09...    | 0805 | 1.25                                | 44100                                                        | 30.5                                            | 16000                                                          | 30.0                              |
| SEP      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 14...    | 1120 | 1.34                                | 44500                                                        | 28.5                                            | 16000                                                          | 30.0                              |

301954089181700 BAYOU PORTAGE CHANNEL LIGHT 1

| DATE     | TIME | GAGE<br>HEIGHT<br>(FEET)<br>(00065) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SALIN-<br>ITY<br>(PPT)<br>(00480) |
|----------|------|-------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|-----------------------------------|
| NOV 1999 |      |                                     |                                                              |                                                 |                                                                |                                   |
| 17...    | 1435 | .56                                 | 33800                                                        | 17.5                                            | 13000                                                          | 24.0                              |
| DEC      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 14...    | 1645 | .40                                 | 40800                                                        | 16.0                                            | 15000                                                          | 28.0                              |
| JAN 2000 |      |                                     |                                                              |                                                 |                                                                |                                   |
| 25...    | 0800 | -.20                                | 31400                                                        | 11.0                                            | 11000                                                          | 22.0                              |
| FEB      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 29...    | 1400 | 1.03                                | 34800                                                        | 19.5                                            | 12000                                                          | 23.0                              |
| APR      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 10...    | 1520 | 2.00                                | 29400                                                        | 19.0                                            | 9600                                                           | 19.0                              |
| MAY      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 25...    | 1205 | 1.50                                | 27600                                                        | 28.5                                            | 9400                                                           | 17.0                              |
| JUN      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 29...    | 0810 | 1.70                                | 33600                                                        | 28.5                                            | 12000                                                          | 22.0                              |
| JUL      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 12...    | 0935 | 1.30                                | 34600                                                        | 30.5                                            | 13000                                                          | 23.0                              |
| AUG      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 09...    | 1230 | 1.20                                | 41400                                                        | 31.0                                            | 15000                                                          | 28.0                              |
| SEP      |      |                                     |                                                              |                                                 |                                                                |                                   |
| 14...    | 1200 | 1.98                                | 39800                                                        | 29.0                                            | 14000                                                          | 27.0                              |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

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## MISSISSIPPI COASTAL SALINITY STUDY--Continued

## WATER QUALITY DATA, FEBRUARY 1999 TO SEPTEMBER 2000

302110088464600 U.S. COAST GUARD BILOXI EAST CHANNEL RANGE FRONT LIGHT

| DATE           | TIME | GAGE<br>HEIGHT<br>(FEET)<br>(00065) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SALIN-<br>ITY<br>(PPT)<br>(00480) |
|----------------|------|-------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|-----------------------------------|
| FEB 1999       |      |                                     |                                                              |                                                 |                                                                |                                   |
| 11...          | 1205 | 4.70                                | 4230                                                         | 20.5                                            | 1300                                                           | 2.5                               |
| 18...          | 1545 | 4.30                                | 25500                                                        | 17.5                                            | 9500                                                           | 17.3                              |
| APR 02...      | 1130 | 4.56                                | 29700                                                        | 20.0                                            | 10000                                                          | 20.0                              |
| MAY 07...      | 1040 | 5.41                                | 33100                                                        | 25.0                                            | 12000                                                          | 24.0                              |
| JUN 15...      | 1300 | 5.41                                | 33500                                                        | 29.5                                            | 11000                                                          | 22.0                              |
| JUL 22...      | 1355 | 3.66                                | 30000                                                        | 29.5                                            | 11000                                                          | 21.0                              |
| AUG 24...      | 1355 | 4.47                                | 41700                                                        | 32.5                                            | 16000                                                          | 29.0                              |
| OCT 13...      | 1515 | 4.56                                | 35500                                                        | 26.0                                            | 13000                                                          | 25.0                              |
| NOV 18...      | 0815 | 4.30                                | 44100                                                        | 16.5                                            | 16000                                                          | 30.0                              |
| DEC 15...      | 0845 | 3.35                                | 43100                                                        | 16.0                                            | 16000                                                          | 30.0                              |
| JAN 2000 25... | 1050 | 2.75                                | 34800                                                        | 11.5                                            | 13000                                                          | 25.0                              |
| FEB 29...      | 1100 | 4.50                                | 45300                                                        | 18.5                                            | 16000                                                          | 31.0                              |
| APR 10...      | 1240 | 4.86                                | 34800                                                        | 18.5                                            | 11000                                                          | 22.0                              |
| MAY 25...      | 1005 | 4.46                                | 35400                                                        | 28.0                                            | 12000                                                          | 23.0                              |
| JUN 22...      | 0830 | 4.08                                | 40000                                                        | 29.5                                            | 15000                                                          | 27.0                              |
| JUL 12...      | 1215 | 4.32                                | 41300                                                        | 31.0                                            | 15000                                                          | 28.0                              |
| AUG 08...      | 1110 | 4.33                                | 48300                                                        | 30.5                                            | 18000                                                          | 34.0                              |
| SEP 13...      | 1425 | 4.94                                | 40900                                                        | 28.5                                            | 15000                                                          | 27.0                              |

302318088512600 BILOXI BAY AT POINT CADET HARBOR AT BILOXI, MS

| DATE           | TIME | GAGE<br>HEIGHT<br>(FEET)<br>(00065) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SALIN-<br>ITY<br>(PPT)<br>(00480) |
|----------------|------|-------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|-----------------------------------|
| JUN 2000 13... | 1405 | 1.17                                | 38600                                                        | 29.5                                            | 14000                                                          | 25.0                              |
| 21...          | 1220 | .60                                 | 38300                                                        | 30.0                                            | 14000                                                          | 26.0                              |
| JUL 12...      | 1310 | .47                                 | 41400                                                        | 31.5                                            | 15000                                                          | 28.0                              |
| AUG 08...      | 1150 | 2.31                                | 44100                                                        | 30.5                                            | 16000                                                          | 30.0                              |
| SEP 13...      | 1515 | 1.18                                | 38600                                                        | 29.0                                            | 14000                                                          | 26.0                              |

301058089313900 U.S. COAST GUARD PEARL RIVER ENTRANCE CHANNEL LIGHT 7A

| DATE           | TIME | GAGE<br>HEIGHT<br>(FEET)<br>(00065) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SALIN-<br>ITY<br>(PPT)<br>(00480) |
|----------------|------|-------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|-----------------------------------|
| JUL 2000 11... | 1430 | 3.99                                | 22500                                                        | 31.5                                            | 6800                                                           | 13.0                              |
| AUG 09...      | 1035 | 4.66                                | 31700                                                        | 30.0                                            | 11000                                                          | 21.0                              |
| SEP 14...      | 0930 | 4.65                                | 32000                                                        | 29.5                                            | 11000                                                          | 21.0                              |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY

0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS

LOCATION.--Lat 33°25'02", long 90°14'10", in SE $\frac{1}{4}$  SW $\frac{1}{4}$ sec.18, T.18 N., R.1 E., Choctaw Meridian, Leflore County, Hydrologic Unit 08030206, on tributary approximately 100 ft upstream of Unknown Lake (locally referred to as Deep Hollow Lake), approximately 0.3 mi southeast of Yazoo River levee at Sidon Cutoff, 1.5 mi west of Illinois Central Gulf Railroad, 0.7 mi north of Fish Lake, and 1.6 mi west-northwest of Sidon.

DRAINAGE AREA.--0.07 mi<sup>2</sup> (42.1 acres).

PERIOD OF RECORD.--Water years 1996 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 115.20 ft above sea level. Automatic pumping water-quality and sediment samplers since April 1996.

REMARKS.--Unpublished records of gage height and discharge during selected storm events are available in files of District office. Occasionally, records of gage height and discharge were not computed due to backwater or malfunction of the instruments.

WATER YEAR 1996: No estimated discharges. Discharge records good.

WATER YEAR 1997: No estimated discharges. Discharge records good.

WATER YEAR 1998: No estimated discharges. Discharge records good.

WATER YEAR 1999: No estimated discharges. Discharge records good. Discharges during summer months may be due to irrigation.

WATER YEAR 2000: No estimated discharges. Discharge records good. Discharges during summer months may be due to irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined due to berm failure, May 2, 1997, gage height 2.43 ft before structural failure, maximum gage height, 4.10 ft due to backwater from Yazoo River occurred sometime during the period Mar. 4-13, 1997; no flow for many days during each year.

EXTREMES FOR CURRENT YEAR.--

WATER YEAR 1996: Maximum discharge during period July to September, 11 ft<sup>3</sup>/s, Sept. 16, gage height, 1.95 ft; no flow for many days during year.

WATER YEAR 1997: Maximum discharge not determined due to berm failure, May 2, gage height 2.43 ft before structural failure, maximum gage height, 4.10 ft due to backwater from Yazoo River occurred sometime during the period Mar. 4-13; no flow for many days during year.

WATER YEAR 1998: Maximum discharge not determined due to overtopping of berm, May 29, gage height 2.46 ft at time of overtopping, maximum gage height, 2.46 ft, May 29; no flow for many days during year.

WATER YEAR 1999: Maximum discharge 18 ft<sup>3</sup>/s, Jan. 29, gage height, 2.40 ft; no flow for many days during year.

WATER YEAR 2000: Maximum discharge not determined due to overtopping of berm, Apr. 1, gage height 2.50 ft at time of overtopping, maximum gage height, 2.50 ft, Apr. 1; no flow for many days during year.

## SELECTED RUNOFF EVENTS, 1996 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 07-31 | 0954 | 0.24        | 0.14      | 09-16 | 0304 | 0.07        | --        | 09-16 | 0815 | 0.11        | 0.04      |
| 07-31 | 1001 | 0.41        | 0.38      | 09-16 | 0318 | 0.07        | --        | 09-16 | 0830 | 0.37        | 0.31      |
| 07-31 | 1004 | 0.33        | 0.25      | 09-16 | 0320 | 0.17        | 0.08      | 09-16 | 0845 | 0.59        | 0.79      |
| 07-31 | 1010 | 0.43        | 0.42      | 09-16 | 0330 | 0.20        | 0.10      | 09-16 | 0900 | 1.09        | 2.9       |
| 07-31 | 1015 | 0.43        | 0.42      | 09-16 | 0345 | 0.25        | 0.15      | 09-16 | 0915 | 1.67        | 7.6       |
| 07-31 | 1020 | 0.42        | 0.40      | 09-16 | 0400 | 0.57        | 0.74      | 09-16 | 0930 | 1.94        | 11        |
| 07-31 | 1025 | 0.41        | 0.38      | 09-16 | 0410 | 0.70        | 1.1       | 09-16 | 0940 | 1.95        | 11        |
| 07-31 | 1030 | 0.39        | 0.34      | 09-16 | 0420 | 0.78        | 1.4       | 09-16 | 0945 | 1.94        | 11        |
| 07-31 | 1040 | 0.36        | 0.30      | 09-16 | 0430 | 0.83        | 1.6       | 09-16 | 1000 | 1.86        | 9.7       |
| 07-31 | 1050 | 0.31        | 0.22      | 09-16 | 0440 | 0.85        | 1.7       | 09-16 | 1015 | 1.71        | 8.0       |
| 07-31 | 1100 | 0.26        | 0.16      | 09-16 | 0450 | 0.85        | 1.7       | 09-16 | 1030 | 1.45        | 5.5       |
| 07-31 | 1115 | 0.19        | 0.09      | 09-16 | 0500 | 0.82        | 1.6       | 09-16 | 1100 | 0.88        | 1.8       |
| 07-31 | 1130 | 0.13        | 0.05      | 09-16 | 0530 | 0.66        | 1.0       | 09-16 | 1130 | 0.52        | 0.61      |
| 07-31 | 1145 | 0.09        | --        | 09-16 | 0600 | 0.46        | 0.48      | 09-16 | 1200 | 0.30        | 0.21      |
| 07-31 | 1158 | 0.07        | --        | 09-16 | 0630 | 0.30        | 0.21      | 09-16 | 1230 | 0.20        | 0.10      |
|       |      |             |           | 09-16 | 0700 | 0.21        | 0.11      | 09-16 | 1330 | 0.11        | 0.04      |
|       |      |             |           | 09-16 | 0800 | 0.11        | 0.04      | 09-16 | 1444 | 0.07        | --        |

## SELECTED RUNOFF EVENTS, 1997 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 01-15 | 1412 | 0.06        | --        | 04-05 | 0943 | 0.03        | --        | 05-27 | 2147 | 0.05        | --        |
| 01-15 | 1413 | 0.20        | 0.10      | 04-05 | 0945 | 0.30        | 0.21      | 05-27 | 2148 | 0.33        | 0.25      |
| 01-15 | 1430 | 0.66        | 1.0       | 04-05 | 0950 | 0.59        | 0.79      | 05-27 | 2150 | 0.68        | 1.1       |
| 01-15 | 1445 | 0.83        | 1.6       | 04-05 | 0955 | 0.76        | 1.3       | 05-27 | 2155 | 1.25        | 3.9       |
| 01-15 | 1500 | 0.96        | 2.2       | 04-05 | 1000 | 0.90        | 1.9       | 05-27 | 2200 | 1.51        | 6.0       |
| 01-15 | 1515 | 1.09        | 2.9       | 04-05 | 1015 | 1.15        | 3.3       | 05-27 | 2215 | 1.98        | 11        |
| 01-15 | 1530 | 1.16        | 3.3       | 04-05 | 1030 | 1.29        | 4.2       | 05-27 | 2230 | 2.04        | 12        |
| 01-15 | 1545 | 1.22        | 3.7       | 04-05 | 1045 | 1.37        | 4.8       | 05-27 | 2237 | 2.05        | 12        |
| 01-15 | 1600 | 1.25        | 3.9       | 04-05 | 1100 | 1.42        | 5.2       | 05-27 | 2245 | 2.02        | 12        |
| 01-15 | 1615 | 1.26        | 4.0       | 04-05 | 1115 | 1.44        | 5.4       | 05-27 | 2300 | 1.93        | 11        |
| 01-15 | 1630 | 1.24        | 3.9       | 04-05 | 1130 | 1.40        | 5.1       | 05-27 | 2315 | 1.62        | 7.0       |
| 01-15 | 1645 | 1.20        | 3.6       | 04-05 | 1145 | 1.34        | 4.6       | 05-27 | 2330 | 0.62        | 0.88      |
| 01-15 | 1700 | 1.16        | 3.3       | 04-05 | 1200 | 1.28        | 4.1       | 05-27 | 2345 | 0.51        | 0.58      |
| 01-15 | 1715 | 1.12        | 3.1       | 04-05 | 1215 | 1.21        | 3.7       | 05-27 | 2400 | 0.60        | 0.82      |
| 01-15 | 1730 | 1.08        | 2.8       | 04-05 | 1230 | 1.14        | 3.2       | 05-28 | 0015 | 0.75        | 1.3       |
| 01-15 | 1745 | 1.01        | 2.5       | 04-05 | 1245 | 1.08        | 2.8       | 05-28 | 0030 | 0.89        | 1.9       |
| 01-15 | 1800 | 0.94        | 2.1       | 04-05 | 1300 | 1.00        | 2.4       | 05-28 | 0100 | 1.32        | 4.4       |
| 01-15 | 1815 | 0.87        | 1.8       | 04-05 | 1330 | 0.80        | 1.5       | 05-28 | 0115 | 1.45        | 5.5       |
| 01-15 | 1830 | 0.80        | 1.5       | 04-05 | 1400 | 0.60        | 0.82      | 05-28 | 0130 | 1.53        | 6.2       |
| 01-15 | 1900 | 0.67        | 1.0       | 04-05 | 1430 | 0.42        | 0.40      | 05-28 | 0200 | 1.37        | 4.8       |
| 01-15 | 1930 | 0.56        | 0.71      | 04-05 | 1500 | 0.28        | 0.18      | 05-28 | 0230 | 1.22        | 3.7       |
| 01-15 | 2000 | 0.47        | 0.50      | 04-05 | 1530 | 0.19        | 0.09      | 05-28 | 0300 | 1.09        | 2.9       |
| 01-15 | 2100 | 0.34        | 0.27      | 04-05 | 1545 | 0.14        | 0.05      | 05-28 | 0330 | 0.82        | 1.6       |
| 01-15 | 2200 | 0.26        | 0.16      | 04-05 | 1600 | 0.08        | --        | 05-28 | 0400 | 0.54        | 0.7       |
| 01-15 | 2300 | 0.20        | 0.10      |       |      |             |           | 05-28 | 0430 | 0.31        | 0.2       |
| 01-15 | 2400 | 0.16        | 0.07      |       |      |             |           | 05-28 | 0500 | 0.14        | 0.05      |
| 01-16 | 0100 | 0.13        | 0.05      |       |      |             |           | 05-28 | 0504 | 0.10        | 0.03      |
| 01-16 | 0200 | 0.09        | --        |       |      |             |           |       |      |             |           |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

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## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued

## SELECTED RUNOFF EVENTS, 1998 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 12-21 | 0656 | 0.03        | --        | 04-18 | 1324 | 0.02        | --        | 06-06 | 1147 | 0.04        | --        |
| 12-21 | 0657 | 0.13        | 0.05      | 04-18 | 1325 | 0.12        | 0.04      | 06-05 | 1148 | 0.29        | 0.20      |
| 12-21 | 0700 | 0.38        | 0.33      | 04-18 | 1330 | 0.25        | 0.15      | 06-05 | 1153 | 0.78        | 1.4       |
| 12-21 | 0705 | 0.61        | 0.85      | 04-18 | 1345 | 0.32        | 0.24      | 06-05 | 1158 | 1.38        | 4.9       |
| 12-21 | 0710 | 0.78        | 1.4       | 04-18 | 1400 | 0.32        | 0.24      | 06-05 | 1205 | 1.87        | 9.8       |
| 12-21 | 0715 | 0.91        | 2.0       | 04-18 | 1430 | 0.33        | 0.25      | 06-05 | 1210 | 1.97        | 11        |
| 12-21 | 0720 | 1.01        | 2.5       | 04-18 | 1500 | 0.47        | 0.50      | 06-05 | 1215 | 2.05        | 12        |
| 12-21 | 0725 | 1.12        | 3.1       | 04-18 | 1530 | 0.55        | 0.68      | 06-05 | 1220 | 2.09        | 13        |
| 12-21 | 0730 | 1.21        | 3.7       | 04-18 | 1600 | 0.61        | 0.85      | 06-05 | 1225 | 2.10        | 13        |
| 12-21 | 0735 | 1.31        | 4.4       | 04-18 | 1630 | 0.64        | 0.94      | 06-05 | 1230 | 2.11        | 13        |
| 12-21 | 0740 | 1.43        | 5.3       | 04-18 | 1700 | 0.74        | 1.3       | 06-05 | 1245 | 2.10        | 13        |
| 12-21 | 0745 | 1.53        | 6.2       | 04-18 | 1730 | 1.14        | 3.2       | 06-05 | 1253 | 2.10        | 13        |
| 12-21 | 0750 | 1.65        | 7.3       | 04-18 | 1801 | 1.40        | 5.1       | 06-05 | 1300 | 2.06        | 12        |
| 12-21 | 0755 | 1.72        | 8.1       | 04-18 | 1815 | 1.38        | 4.9       | 06-05 | 1315 | 1.87        | 9.8       |
| 12-21 | 0800 | 1.77        | 8.6       | 04-18 | 1830 | 1.30        | 4.3       | 06-05 | 1330 | 1.29        | 4.2       |
| 12-21 | 0805 | 1.82        | 9.2       | 04-18 | 1900 | 1.09        | 2.9       | 06-05 | 1345 | 0.62        | 0.88      |
| 12-21 | 0810 | 1.84        | 9.5       | 04-18 | 1930 | 0.84        | 1.7       | 06-05 | 1355 | 0.42        | 0.40      |
| 12-21 | 0815 | 1.85        | 9.6       | 04-18 | 2000 | 0.65        | 0.97      | 06-05 | 1405 | 0.30        | 0.21      |
| 12-21 | 0820 | 1.84        | 9.5       | 04-18 | 2030 | 0.51        | 0.58      | 06-05 | 1420 | 0.20        | 0.10      |
| 12-21 | 0830 | 1.82        | 9.2       | 04-18 | 2100 | 0.41        | 0.38      | 06-05 | 1435 | 0.13        | 0.05      |
| 12-21 | 0840 | 1.81        | 9.1       | 04-18 | 2130 | 0.34        | 0.27      | 06-05 | 1450 | 0.08        | --        |
| 12-21 | 0845 | 1.79        | 8.9       | 04-18 | 2200 | 0.28        | 0.18      |       |      |             |           |
| 12-21 | 0900 | 1.73        | 8.2       | 04-18 | 2230 | 0.24        | 0.14      |       |      |             |           |
| 12-21 | 0915 | 1.67        | 7.6       | 04-18 | 2300 | 0.21        | 0.11      |       |      |             |           |
| 12-21 | 0930 | 1.59        | 6.7       | 04-18 | 2330 | 0.19        | 0.09      |       |      |             |           |
| 12-21 | 0945 | 1.50        | 5.9       | 04-18 | 2400 | 0.16        | 0.07      |       |      |             |           |
| 12-21 | 1000 | 1.44        | 5.4       | 04-19 | 0030 | 0.14        | 0.05      |       |      |             |           |
| 12-21 | 1015 | 1.39        | 5.0       | 04-19 | 0100 | 0.13        | 0.05      |       |      |             |           |
| 12-21 | 1030 | 1.36        | 4.7       | 04-19 | 0200 | 0.10        | 0.03      |       |      |             |           |
| 12-21 | 1100 | 1.28        | 4.1       | 04-19 | 0300 | 0.08        | --        |       |      |             |           |
| 12-21 | 1130 | 1.17        | 3.4       |       |      |             |           |       |      |             |           |
| 12-21 | 1200 | 0.97        | 2.3       |       |      |             |           |       |      |             |           |
| 12-21 | 1230 | 0.77        | 1.4       |       |      |             |           |       |      |             |           |
| 12-21 | 1300 | 0.60        | 0.82      |       |      |             |           |       |      |             |           |
| 12-21 | 1330 | 0.49        | 0.54      |       |      |             |           |       |      |             |           |
| 12-21 | 1400 | 0.42        | 0.40      |       |      |             |           |       |      |             |           |
| 12-21 | 1500 | 0.32        | 0.24      |       |      |             |           |       |      |             |           |
| 12-21 | 1700 | 0.23        | 0.13      |       |      |             |           |       |      |             |           |
| 12-21 | 1900 | 0.17        | 0.08      |       |      |             |           |       |      |             |           |
| 12-21 | 2100 | 0.13        | 0.05      |       |      |             |           |       |      |             |           |
| 12-21 | 2300 | 0.10        | 0.03      |       |      |             |           |       |      |             |           |

## SELECTED RUNOFF EVENTS, 1999 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 11-20 | 0453 | 0.08        | --        | 05-05 | 1958 | 0.06        | --        | 04-14 | 1934 | 0.01        | --        |
| 11-20 | 0454 | 0.22        | 0.12      | 05-05 | 2000 | 0.26        | 0.16      | 04-14 | 1935 | 0.14        | 0.05      |
| 11-20 | 0500 | 0.56        | 0.71      | 05-05 | 2005 | 0.53        | 0.63      | 04-14 | 1937 | 0.20        | 0.10      |
| 11-20 | 0510 | 1.02        | 2.5       | 05-05 | 2010 | 0.71        | 1.2       | 04-14 | 1945 | 0.11        | 0.04      |
| 11-20 | 0520 | 1.34        | 4.6       | 05-05 | 2015 | 0.86        | 1.7       | 04-14 | 1952 | 0.27        | 0.17      |
| 11-20 | 0530 | 1.68        | 7.7       | 05-05 | 2020 | 1.01        | 2.5       | 04-14 | 2000 | 0.53        | 0.63      |
| 11-20 | 0540 | 1.90        | 10        | 05-05 | 2025 | 1.12        | 3.1       | 04-14 | 2010 | 1.05        | 2.7       |
| 11-20 | 0550 | 2.00        | 11        | 05-05 | 2030 | 1.20        | 3.6       | 04-14 | 2020 | 1.37        | 4.8       |
| 11-20 | 0600 | 2.05        | 12        | 05-05 | 2040 | 1.30        | 4.3       | 04-14 | 2030 | 1.49        | 5.8       |
| 11-20 | 0610 | 2.07        | 12        | 05-05 | 2050 | 1.36        | 4.7       | 04-14 | 2040 | 1.56        | 6.5       |
| 11-20 | 0620 | 2.07        | 12        | 05-05 | 2100 | 1.37        | 4.8       | 04-14 | 2050 | 1.57        | 6.6       |
| 11-20 | 0625 | 2.08        | 13        | 05-05 | 2110 | 1.38        | 4.9       | 04-14 | 2100 | 1.55        | 6.4       |
| 11-20 | 0630 | 2.06        | 12        | 05-05 | 2130 | 1.38        | 4.9       | 04-14 | 2115 | 1.48        | 5.7       |
| 11-20 | 0640 | 2.06        | 12        | 05-05 | 2145 | 1.34        | 4.6       | 04-14 | 2133 | 1.39        | 5.0       |
| 11-20 | 0650 | 2.03        | 12        | 05-05 | 2200 | 1.27        | 4.1       | 04-14 | 2150 | 1.50        | 5.9       |
| 11-20 | 0700 | 1.95        | 11        | 05-05 | 2215 | 1.16        | 3.3       | 04-14 | 2205 | 1.53        | 6.2       |
| 11-20 | 0705 | 1.88        | 9.9       | 05-05 | 2230 | 1.04        | 2.6       | 04-14 | 2222 | 1.45        | 5.5       |
| 11-20 | 0710 | 1.82        | 9.2       | 05-05 | 2245 | 0.91        | 2.0       | 04-14 | 2235 | 1.71        | 8.0       |
| 11-20 | 0715 | 1.75        | 8.4       | 05-05 | 2300 | 0.80        | 1.5       | 04-14 | 2250 | 1.94        | 11        |
| 11-20 | 0720 | 1.70        | 7.9       | 05-05 | 2315 | 0.69        | 1.1       | 04-14 | 2310 | 2.04        | 12        |
| 11-20 | 0730 | 1.59        | 6.7       | 05-05 | 2330 | 0.56        | 0.71      | 04-14 | 2330 | 2.09        | 13        |
| 11-20 | 0740 | 1.46        | 5.6       | 05-05 | 2345 | 0.49        | 0.54      | 04-14 | 2350 | 2.05        | 12        |
| 11-20 | 0750 | 1.38        | 4.9       | 05-05 | 2400 | 0.40        | 0.36      | 04-15 | 0010 | 1.89        | 10        |
| 11-20 | 0800 | 1.29        | 4.2       | 05-06 | 0015 | 0.33        | 0.25      | 04-15 | 0030 | 1.51        | 6.0       |
| 11-20 | 0810 | 1.23        | 3.8       | 05-06 | 0030 | 0.28        | 0.18      | 04-15 | 0100 | 0.75        | 1.3       |
| 11-20 | 0820 | 1.13        | 3.2       | 05-06 | 0100 | 0.20        | 0.10      | 04-15 | 0130 | 0.50        | 0.56      |
| 11-20 | 0830 | 1.05        | 2.7       | 05-06 | 0130 | 0.14        | 0.05      | 04-15 | 0200 | 0.35        | 0.28      |
| 11-20 | 0840 | 0.94        | 2.1       | 05-06 | 0145 | 0.10        | 0.03      | 04-15 | 0230 | 0.26        | 0.16      |
| 11-20 | 0850 | 0.86        | 1.7       |       |      |             |           | 04-15 | 0300 | 0.20        | 0.10      |
| 11-20 | 0900 | 0.76        | 1.3       |       |      |             |           | 04-15 | 0330 | 0.16        | 0.07      |
| 11-20 | 0915 | 0.65        | 0.97      |       |      |             |           | 04-15 | 0400 | 0.11        | 0.04      |
| 11-20 | 0930 | 0.56        | 0.71      |       |      |             |           | 04-15 | 0430 | 0.06        | --        |
| 11-20 | 1000 | 0.44        | 0.44      |       |      |             |           |       |      |             |           |
| 11-20 | 1030 | 0.37        | 0.31      |       |      |             |           |       |      |             |           |
| 11-20 | 1100 | 0.34        | 0.27      |       |      |             |           |       |      |             |           |
| 11-20 | 1200 | 0.24        | 0.14      |       |      |             |           |       |      |             |           |
| 11-20 | 1300 | 0.20        | 0.10      |       |      |             |           |       |      |             |           |
| 11-20 | 1400 | 0.17        | 0.08      |       |      |             |           |       |      |             |           |
| 11-20 | 1500 | 0.12        | 0.04      |       |      |             |           |       |      |             |           |
| 11-20 | 1600 | 0.06        | --        |       |      |             |           |       |      |             |           |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued

## SELECTED RUNOFF EVENTS, 2000 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage<br>Height | Discharge | Date  | Time | Gage<br>Height | Discharge | Date  | Time | Gage<br>Height | Discharge |
|-------|------|----------------|-----------|-------|------|----------------|-----------|-------|------|----------------|-----------|
| 02-13 | 1653 | .02            | --        | 03-29 | 1252 | .03            | --        | 06-17 | 1600 | .06            | --        |
| 02-13 | 1655 | .27            | 0.17      | 03-29 | 1300 | .40            | 0.36      | 06-17 | 1615 | .24            | 0.14      |
| 02-13 | 1700 | .84            | 1.7       | 03-29 | 1305 | .58            | 0.76      | 06-17 | 1620 | .50            | .56       |
| 02-13 | 1705 | 1.03           | 2.6       | 03-29 | 1310 | .64            | 0.94      | 06-17 | 1625 | .73            | 1.2       |
| 02-13 | 1710 | 1.04           | 2.9       | 03-29 | 1315 | .85            | 1.7       | 06-17 | 1630 | 1.12           | 3.1       |
| 02-13 | 1715 | 1.25           | 3.9       | 03-29 | 1320 | .95            | 2.2       | 06-17 | 1635 | 1.65           | 7.3       |
| 02-13 | 1720 | 1.41           | 5.1       | 03-29 | 1325 | 1.03           | 2.6       | 06-17 | 1640 | 1.67           | 7.6       |
| 02-13 | 1725 | 1.44           | 5.4       | 03-29 | 1330 | 1.09           | 2.9       | 06-17 | 1645 | 1.82           | 9.2       |
| 02-13 | 1730 | 1.54           | 6.3       | 03-29 | 1335 | 1.13           | 3.2       | 06-17 | 1650 | 1.89           | 10        |
| 02-13 | 1735 | 1.61           | 6.9       | 03-29 | 1340 | 1.17           | 3.4       | 06-17 | 1655 | 1.87           | 9.8       |
| 02-13 | 1740 | 1.67           | 7.6       | 03-29 | 1345 | 1.20           | 3.6       | 06-17 | 1700 | 1.82           | 9.2       |
| 02-13 | 1745 | 1.71           | 8.0       | 03-29 | 1350 | 1.23           | 3.8       | 06-17 | 1705 | 1.73           | 8.2       |
| 02-13 | 1750 | 1.76           | 8.5       | 03-29 | 1355 | 1.24           | 3.9       | 06-17 | 1710 | 1.57           | 6.6       |
| 02-13 | 1755 | 1.79           | 8.9       | 03-29 | 1400 | 1.23           | 3.8       | 06-17 | 1715 | 1.34           | 4.6       |
| 02-13 | 1800 | 1.79           | 8.9       | 03-29 | 1405 | 1.22           | 3.7       | 06-17 | 1720 | 1.07           | 2.8       |
| 02-13 | 1806 | 1.83           | 9.3       | 03-29 | 1410 | 1.20           | 3.6       | 06-17 | 1725 | .90            | 1.9       |
| 02-13 | 1810 | 1.82           | 9.2       | 03-29 | 1415 | 1.16           | 3.3       | 06-17 | 1730 | .82            | 1.6       |
| 02-13 | 1820 | 1.79           | 8.9       | 03-29 | 1430 | 1.01           | 2.5       | 06-17 | 1745 | .67            | 1.0       |
| 02-13 | 1830 | 1.74           | 8.3       | 03-29 | 1445 | .85            | 1.7       | 06-17 | 1800 | .60            | .82       |
| 02-13 | 1840 | 1.69           | 7.8       | 03-29 | 1500 | .68            | 1.1       | 06-17 | 1815 | .55            | .68       |
| 02-13 | 1850 | 1.55           | 6.4       | 03-29 | 1515 | .55            | 0.68      | 06-17 | 1830 | .51            | .58       |
| 02-13 | 1900 | 1.39           | 5.0       | 03-29 | 1530 | .47            | 0.50      | 06-17 | 1845 | .47            | .50       |
| 02-13 | 1910 | 1.14           | 3.2       | 03-29 | 1600 | .34            | 0.27      | 06-17 | 1900 | .42            | .40       |
| 02-13 | 1920 | .89            | 1.9       | 03-29 | 1630 | .27            | 0.17      | 06-17 | 1930 | .32            | .24       |
| 02-13 | 1930 | .77            | 1.4       | 03-29 | 1700 | .22            | 0.12      | 06-17 | 2000 | .24            | .14       |
| 02-13 | 2000 | .61            | 0.85      | 03-29 | 1730 | .18            | 0.08      | 06-17 | 2030 | .18            | .08       |
| 02-13 | 2030 | .47            | 0.50      | 03-29 | 1800 | .15            | 0.06      | 06-17 | 2100 | .14            | .05       |
| 02-13 | 2100 | .38            | 0.33      |       |      |                |           |       |      |                |           |
| 02-13 | 2130 | .34            | 0.27      |       |      |                |           |       |      |                |           |
| 02-13 | 2200 | .28            | 0.18      |       |      |                |           |       |      |                |           |
| 02-13 | 2230 | .25            | 0.15      |       |      |                |           |       |      |                |           |
| 02-13 | 2300 | .20            | 0.10      |       |      |                |           |       |      |                |           |
| 02-13 | 2400 | .18            | 0.08      |       |      |                |           |       |      |                |           |
| 02-14 | 0100 | .14            | 0.05      |       |      |                |           |       |      |                |           |
| 02-14 | 0200 | .12            | 0.04      |       |      |                |           |       |      |                |           |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued

## GRAB SAMPLE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

|           |      | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | OXYGEN, DIS-SOLVED (MG/L) (00300)                    | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | SPECIFIC CONDUCTANCE (US/CM) (00095)                    | TEMPERATURE WATER (DEG C) (00010)           | NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)    | NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)       | PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)     | PHOSPHORUS TOTAL (MG/L AS P) (00665)                    |                                                        |
|-----------|------|-------------------------------------------------|------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------|---------------------------------------------|--------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|
| MAR 18... | 1740 | .10                                             | 9.5                                                  | 6.3                                           | 144                                                     | 12.5                                        | 2.10                                             | 16                                                    | 9.00                                                | .050                                                   | .240                                                 | .680                                                    |                                                        |
| MAR 18... | 1845 | .22                                             | 10.7                                                 | 6.4                                           | 207                                                     | 10.0                                        | 2.80                                             | 27                                                    | 17.0                                                | .080                                                   | .210                                                 | 1.10                                                    |                                                        |
| APR 14... | 1823 | .24                                             | --                                                   | 6.3                                           | 117                                                     | --                                          | .830                                             | 6.5                                                   | 7.40                                                | .060                                                   | .030                                                 | .820                                                    |                                                        |
| MAY 11... | 0715 | 1.9                                             | 9.7                                                  | 6.2                                           | 21                                                      | 19.5                                        | .250                                             | 3.6                                                   | .930                                                | .010                                                   | .110                                                 | 1.00                                                    |                                                        |
| DATE      |      | CARBON, ORGANIC TOTAL (MG/L AS C) (00680)       | 3,4-DI-CHLORO-ANILINE WATER FLTRD REC (UG/L) (50309) | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)   | ANILINE 3-(TRI-FLURO-METHYL) FILTRD REC, (UG/L) (50307) | ATRA-ZINE, WATER, DISS, REC, (UG/L) (39632) | CYANA-ZINE, WATER, DISS, REC, (UG/L) (04041)     | CYANA-ZINE, AMIDE WATER, FLTRD REC, (UG/L) (61709)    | DEETHYL-ATRA-ZINE, WATER, DISS, REC, (UG/L) (04040) | DEISO-PROPYL-ATRAZIN, WATER, DISS, REC, (UG/L) (04038) | DEISO-PROPYL-METRYN WATER, FLTRD REC, (UG/L) (50378) | DEMETH-YLFLURO-METURON WATER, FLTRD REC, (UG/L) (50379) | DEMETH-YLNORF-LURAZON WATER, FLTRD REC, (UG/L) (50380) |
| MAR 18... | 22   | <.050                                           | <.050                                                | <.050                                         | .080                                                    | <.050                                       | <.050                                            | <.050                                                 | .08                                                 | <.050                                                  | .350                                                 | .070                                                    |                                                        |
| MAR 18... | 26   | <.050                                           | <.050                                                | .120                                          | .080                                                    | .050                                        | <.050                                            | <.050                                                 | <.05                                                | <.050                                                  | .510                                                 | .080                                                    |                                                        |
| APR 14... | 13   | <.050                                           | <.050                                                | .230                                          | .090                                                    | <.050                                       | <.050                                            | <.050                                                 | .09                                                 | <.050                                                  | .170                                                 | <.050                                                   |                                                        |
| MAY 11... | 8.9  | <.050                                           | <.050                                                | 1.030                                         | .080                                                    | <.050                                       | <.050                                            | <.050                                                 | <.05                                                | <.050                                                  | 6.30                                                 | .600                                                    |                                                        |

| DATE      |      | FLURO-MET-URON WATER FLTRD REC (UG/L) (61710) | METO-LACHLOR WATER DISSOLV (UG/L) (39415) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) | MOLI-NATE WATER FLTRD REC (UG/L) (50375) | NORFLU-RAZONE WATER FLTRD REC (UG/L) (50332) | PRO-METRYN, WATER, DISS, REC (UG/L) (04036) | PROP-ANIL WATER FLTRD REC (UG/L) (50377) | PROP-AZINE WATER DISS REC (UG/L) (38535) | SI-MAZINE, WATER, DISS, REC (UG/L) (04035) | UREA, 3-TRI-FLURO-METHYL-PHENYL UNFLTRD (UG/L) (50473) | SEDI-MENT, SUS-PENDED (MG/L) (80154) |
|-----------|------|-----------------------------------------------|-------------------------------------------|-------------------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------|------------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|
| MAR 18... | .400 | .060                                          | <.050                                     | <.050                                           | <.050                                    | <.05                                         | <.050                                       | <.05                                     | <.050                                    | <.050                                      | --                                                     |                                      |
| MAR 18... | .780 | .070                                          | <.050                                     | <.050                                           | .050                                     | <.05                                         | <.050                                       | <.05                                     | <.050                                    | <.050                                      | 1960                                                   |                                      |
| APR 14... | .230 | <.050                                         | <.050                                     | <.050                                           | <.050                                    | <.05                                         | <.050                                       | <.05                                     | <.050                                    | <.050                                      | 2220                                                   |                                      |
| MAY 11... | 189  | .050                                          | <.050                                     | .350                                            | 67.00                                    | <.05                                         | <.050                                       | <.05                                     | <.050                                    | <.050                                      | 4290                                                   |                                      |

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE      | TIME  | ENDING TIME                                             | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) AS N (00625) | NITRO-GEN, NO2+NO3 SOLVED (MG/L) AS N (00631)      | NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)  | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) AS P (00671)     | PHOS-PHORUS TOTAL (MG/L) AS P (00665)                | CARBON, ORGANIC TOTAL (MG/L) AS C (00680)               | 3,4-DI-CHLORO-ANILINE WATER FLTRD REC (UG/L) (50309)   | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)   |
|-----------|-------|---------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------|
| JUL 31-31 | 0954  | 1143                                                    | .290                                              | .72                                                     | .390                                               | .020                                               | .180                                                  | .480                                                 | --                                                      | <.050                                                  | <.050                                         |
| AUG 02-02 | 0647  | 1229                                                    | .190                                              | 2.7                                                     | .220                                               | .015                                               | .120                                                  | .800                                                 | --                                                      | <.050                                                  | <.050                                         |
| SEP 16-16 | 0355  | 0846                                                    | 1.00                                              | 6.0                                                     | .530                                               | .210                                               | .630                                                  | 1.60                                                 | 26                                                      | <.050                                                  | <.050                                         |
| DATE      |       | ANILINE 3-(TRI-FLURO-METHYL) FILTRD REC, (UG/L) (50307) | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)        | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)             | CYANA-ZINE, AMIDE WATER, FLTRD REC, (UG/L) (61709) | DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040) | DEISO-PROPYL-ATRAZIN, WATER, DISS, REC (UG/L) (04038) | DEISO-PROPYL-METRYN, WATER, FLTRD REC (UG/L) (50378) | DEMETH-YLFLURO-LURAZON, WATER, FLTRD REC (UG/L) (50379) | DEMETH-YLNORF-LURAZON, WATER, FLTRD REC (UG/L) (50380) | FLURO-MET-URON WATER FLTRD REC (UG/L) (61710) |
| JUL 31-31 | .050  | <.050                                                   | 3.19                                              | .060                                                    | <.050                                              | <.05                                               | <.050                                                 | .390                                                 | .140                                                    | .100                                                   |                                               |
| AUG 02-02 | <.050 | <.050                                                   | 2.72                                              | .170                                                    | <.050                                              | <.05                                               | <.050                                                 | .490                                                 | .190                                                    | .930                                                   |                                               |
| SEP 16-16 | <.050 | <.050                                                   | .410                                              | <.050                                                   | <.050                                              | <.05                                               | <.050                                                 | .350                                                 | .080                                                    | .380                                                   |                                               |
| DATE      |       | METO-LACHLOR WATER DISSOLV (UG/L) (39415)               | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)   | MOLI-NATE WATER FLTRD REC (UG/L) (50375)                | NORFLU-RAZONE WATER FLTRD REC (UG/L) (50332)       | PRO-METRYN, WATER, DISS, REC (UG/L) (04036)        | PROP-ANIL WATER FLTRD REC (UG/L) (50377)              | PROP-AZINE WATER DISS REC (UG/L) (38535)             | SI-MAZINE, WATER, DISS, REC (UG/L) (04035)              | UREA, 3-TRI-FLURO-METHYL-PHENYL UNFLTRD (UG/L) (50473) | SEDI-MENT, SUS-PENDED (MG/L) (80154)          |
| JUL 31-31 | <.050 | <.050                                                   | <.050                                             | 1.10                                                    | <.05                                               | <.050                                              | <.05                                                  | <.050                                                | <.050                                                   | --                                                     |                                               |
| AUG 02-02 | <.050 | <.050                                                   | <.050                                             | .300                                                    | <.05                                               | <.050                                              | <.05                                                  | <.050                                                | <.050                                                   | 1170                                                   |                                               |
| SEP 16-16 | .190  | <.050                                                   | <.050                                             | .070                                                    | <.05                                               | <.050                                              | <.05                                                  | <.050                                                | <.050                                                   | --                                                     |                                               |



WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
 MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued  
 0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued  
 COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE  | TIME                                                           | ENDING<br>TIME                                                                 | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                     | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |
|-------|----------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|
| OCT   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 25-27 | 2234                                                           | 0628                                                                           | .160                                                                     | 2.8                                                                            | 6.30                                                                     | .140                                                                     | .590                                                                       | .890                                                                      | --                                                                           | <.050                                                                       | <.0500                                                               |
| NOV   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 01-02 | 1443                                                           | 0237                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| NOV   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 25-25 | 0251                                                           | 0535                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| NOV   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 30-30 | 0107                                                           | 1223                                                                           | <.010                                                                    | 3.1                                                                            | .230                                                                     | .044                                                                     | .020                                                                       | .600                                                                      | --                                                                           | <.050                                                                       | <.0500                                                               |
| DEC   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 16-16 | 0741                                                           | 1445                                                                           | <.010                                                                    | 1.3                                                                            | .190                                                                     | <.010                                                                    | .120                                                                       | .240                                                                      | --                                                                           | <.050                                                                       | <.0500                                                               |
| DEC   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 26-26 | 1427                                                           | 2059                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 15-15 | 1414                                                           | 2206                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| APR   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 05-05 | 0947                                                           | 1512                                                                           | .038                                                                     | 2.7                                                                            | <.020                                                                    | <.010                                                                    | .220                                                                       | .510                                                                      | --                                                                           | <.050                                                                       | <.0500                                                               |
| APR   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 27-27 | 0859                                                           | 1659                                                                           | 2.30                                                                     | 6.4                                                                            | 3.80                                                                     | .230                                                                     | .090                                                                       | .920                                                                      | 14                                                                           | <.050                                                                       | <.0500                                                               |
| MAY   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 24-24 | 0923                                                           | 1442                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| MAY   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 27-28 | 2148                                                           | 0350                                                                           | .210                                                                     | 7.9                                                                            | 2.00                                                                     | .026                                                                     | .040                                                                       | .650                                                                      | 11                                                                           | <.050                                                                       | <.0500                                                               |
| MAY   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 28-29 | 2351                                                           | 0041                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JUN   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 09-09 | 1520                                                           | 2046                                                                           | .210                                                                     | 5.8                                                                            | 1.90                                                                     | .036                                                                     | .040                                                                       | 1.30                                                                      | 4.1                                                                          | <.050                                                                       | <.0500                                                               |
| JUN   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 10-11 | 1824                                                           | 0416                                                                           | .052                                                                     | 5.4                                                                            | .990                                                                     | .020                                                                     | .040                                                                       | 1.50                                                                      | 4.1                                                                          | <.050                                                                       | <.0500                                                               |
| JUN   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 28-28 | 1941                                                           | 2031                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | <.050                                                                       | <.0500                                                               |
| JUN   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 29-29 | 1043                                                           | 1141                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | <.050                                                                       | <.0500                                                               |
| JUL   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 04-04 | 2235                                                           | 2325                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JUL   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 13-13 | 1637                                                           | 1804                                                                           | .120                                                                     | 4.2                                                                            | .550                                                                     | .024                                                                     | .040                                                                       | 1.50                                                                      | 3.9                                                                          | <.050                                                                       | <.0500                                                               |
| DATE  | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3- (TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)   | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| OCT   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 25-27 | <.050                                                          | .060                                                                           | .130                                                                     | .220                                                                           | .330                                                                     | <.0500                                                                   | .100                                                                       | <.050                                                                     | .710                                                                         | .880                                                                        | .580                                                                 |
| NOV   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 01-02 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| NOV   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 25-25 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| NOV   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 30-30 | <.050                                                          | <.050                                                                          | <.050                                                                    | <.0500                                                                         | .140                                                                     | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .980                                                                         | .330                                                                        | 1.12                                                                 |
| DEC   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 16-16 | <.050                                                          | <.050                                                                          | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .340                                                                         | .120                                                                        | <.050                                                                |
| DEC   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 26-26 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 15-15 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| APR   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 05-05 | .080                                                           | <.050                                                                          | .060                                                                     | .120                                                                           | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                        | .140                                                                        | <.050                                                                |
| APR   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 27-27 | <.050                                                          | .050                                                                           | .050                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | .0700                                                                      | <.050                                                                     | .690                                                                         | <.050                                                                       | .660                                                                 |
| MAY   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 24-24 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| MAY   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 27-28 | <.050                                                          | .180                                                                           | .050                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | .300                                                                       | <.050                                                                     | 6.40                                                                         | <.050                                                                       | 34.2                                                                 |
| MAY   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 28-29 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JUN   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 09-09 | <.050                                                          | .240                                                                           | .070                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 3.81                                                                         | .460                                                                        | 15.0                                                                 |
| JUN   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 10-11 | <.050                                                          | .100                                                                           | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 1.78                                                                         | <.050                                                                       | 6.35                                                                 |
| JUN   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 28-28 | <.050                                                          | .210                                                                           | <.050                                                                    | .130                                                                           | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 2.31                                                                         | <.050                                                                       | 5.81                                                                 |
| JUN   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 29-29 | <.050                                                          | .170                                                                           | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 1.58                                                                         | .110                                                                        | 6.68                                                                 |
| JUL   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 04-04 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JUL   |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| 13-13 | <.050                                                          | .050                                                                           | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .120                                                                         | <.050                                                                       | .930                                                                 |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

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## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORPLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|--------------|-----------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------|
| OCT<br>25-27 | .110                                                      | <.050                                                              | <.050                                                       | .430                                                            | .150                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 337                                                  |
| NOV<br>01-02 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 312                                                  |
| NOV<br>25-25 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 681                                                  |
| NOV<br>30-30 | <.050                                                     | <.050                                                              | <.050                                                       | .390                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 610                                                  |
| DEC<br>16-16 | <.050                                                     | <.050                                                              | <.050                                                       | .100                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 217                                                  |
| DEC<br>26-26 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 392                                                  |
| JAN<br>15-15 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 860                                                  |
| APR<br>05-05 | .110                                                      | <.050                                                              | <.050                                                       | .190                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 94                                                   |
| APR<br>27-27 | <.050                                                     | <.050                                                              | <.050                                                       | .050                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 614                                                  |
| MAY<br>24-24 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 447                                                  |
| MAY<br>27-28 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 684                                                  |
| MAY<br>28-29 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1200                                                 |
| JUN<br>09-09 | <.050                                                     | <.050                                                              | <.050                                                       | .220                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 464                                                  |
| JUN<br>10-11 | <.050                                                     | .350                                                               | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 211                                                  |
| JUN<br>28-28 | <.050                                                     | <.050                                                              | --                                                          | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 909                                                  |
| JUN<br>29-29 | <.050                                                     | <.050                                                              | --                                                          | .070                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | --                                                   |
| JUL<br>04-04 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 5260                                                 |
| JUL<br>13-13 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 2660                                                 |

## 0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON. MS--Continued

0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON. MS--Continued

COMPOSITE SAMPLE DATA. WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

[illegible]

## 0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

| DATE         | ALA-CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041) | CYANA-ZINE-AMIDE<br>WATER<br>FLTRD REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-PROPYLN<br>METRYN<br>WATER<br>FLTRD REC<br>(UG/L)<br>(50378) | DEMETH-YLFLURO-<br>METURON<br>WATER<br>FLTRD REC<br>(UG/L)<br>(50379) | DEMETH-YLNORP-<br>LURAZON<br>WATER<br>FLTRD REC<br>(UG/L)<br>(50380) | FLURO-METURON<br>WATER<br>FLTRD REC<br>(UG/L)<br>(61710) |
|--------------|------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------|
|              |                                                            |                                                                               |                                                           |                                                            |                                                             |                                                                      |                                                                        |                                                                    |                                                                       |                                                                      |                                                          |
| OCT<br>23-24 | <.050                                                      | <.050                                                                         | <.050                                                     | .340                                                       | .220                                                        | <.0500                                                               | .230                                                                   | <.050                                                              | .410                                                                  | .090                                                                 | .440                                                     |
| OCT<br>25-26 | <.050                                                      | <.050                                                                         | <.050                                                     | .340                                                       | .250                                                        | <.0500                                                               | .240                                                                   | <.050                                                              | .550                                                                  | <.050                                                                | .540                                                     |
| OCT<br>31-31 | <.050                                                      | <.050                                                                         | <.050                                                     | .520                                                       | .690                                                        | <.0500                                                               | <.0500                                                                 | <.050                                                              | .190                                                                  | <.050                                                                | .770                                                     |
| DEC<br>03-03 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| DEC<br>08-08 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| DEC<br>21-21 | <.050                                                      | .070                                                                          | <.050                                                     | <.0500                                                     | <.050                                                       | <.0500                                                               | <.0500                                                                 | <.050                                                              | .210                                                                  | <.050                                                                | .660                                                     |
| DEC<br>23-24 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| JAN<br>06-06 | <.050                                                      | <.050                                                                         | <.050                                                     | <.0500                                                     | <.050                                                       | <.0500                                                               | .170                                                                   | <.050                                                              | .420                                                                  | .080                                                                 | .610                                                     |
| JAN<br>12-12 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| JAN<br>21-22 | <.050                                                      | <.050                                                                         | <.050                                                     | <.0500                                                     | .090                                                        | <.0500                                                               | .0600                                                                  | <.050                                                              | .160                                                                  | <.050                                                                | .160                                                     |
| JAN<br>26-27 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| FEB<br>01-01 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| FEB<br>10-11 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| FEB<br>15-15 | <.050                                                      | <.050                                                                         | <.050                                                     | <.0500                                                     | .070                                                        | <.0500                                                               | .220                                                                   | <.050                                                              | .240                                                                  | .060                                                                 | .130                                                     |
| FEB<br>22-22 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| FEB<br>26-26 | <.050                                                      | <.050                                                                         | <.050                                                     | .0700                                                      | .070                                                        | <.0500                                                               | .200                                                                   | <.050                                                              | .140                                                                  | <.050                                                                | .200                                                     |
| MAR<br>05-05 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| MAR<br>07-08 | <.050                                                      | <.050                                                                         | <.050                                                     | <.0500                                                     | .120                                                        | <.0500                                                               | .240                                                                   | <.050                                                              | .310                                                                  | <.050                                                                | .200                                                     |
| MAR<br>16-17 | <.050                                                      | <.050                                                                         | <.050                                                     | <.0500                                                     | <.050                                                       | <.0500                                                               | .180                                                                   | <.050                                                              | .410                                                                  | .050                                                                 | .140                                                     |
| APR<br>18-18 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| APR<br>27-28 | <.050                                                      | <.050                                                                         | .210                                                      | <.0500                                                     | <.050                                                       | .0600                                                                | .340                                                                   | <.050                                                              | .430                                                                  | .300                                                                 | .200                                                     |
| APR<br>29-30 | <.050                                                      | <.050                                                                         | .140                                                      | .0500                                                      | <.050                                                       | .0600                                                                | .330                                                                   | <.050                                                              | 1.09                                                                  | .440                                                                 | .450                                                     |
| MAY<br>28-29 | <.050                                                      | .150                                                                          | .410                                                      | <.0500                                                     | <.050                                                       | .0900                                                                | .170                                                                   | <.050                                                              | 5.11                                                                  | .200                                                                 | 11.4                                                     |
| JUN<br>05-05 | <.050                                                      | <.050                                                                         | .060                                                      | <.0500                                                     | <.050                                                       | <.0500                                                               | .160                                                                   | <.050                                                              | 7.79                                                                  | <.050                                                                | 9.07                                                     |
| JUL<br>10-10 | <.050                                                      | <.050                                                                         | <.050                                                     | 25.0                                                       | 2.17                                                        | <.0500                                                               | .180                                                                   | <.050                                                              | 1.02                                                                  | <.050                                                                | .840                                                     |
| JUL<br>12-12 | <.050                                                      | <.050                                                                         | <.050                                                     | 15.4                                                       | 2.84                                                        | <.0500                                                               | .190                                                                   | <.050                                                              | .880                                                                  | <.050                                                                | .960                                                     |
| JUL<br>21-21 | <.050                                                      | <.050                                                                         | <.050                                                     | 3.12                                                       | 3.49                                                        | <.0500                                                               | .200                                                                   | <.050                                                              | .400                                                                  | <.050                                                                | .560                                                     |
| JUL<br>30-31 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |
| AUG<br>07-08 | <.050                                                      | <.050                                                                         | <.050                                                     | .500                                                       | 1.59                                                        | <.0500                                                               | <.0500                                                                 | <.050                                                              | .350                                                                  | <.050                                                                | .370                                                     |
| SEP<br>20-20 | --                                                         | --                                                                            | --                                                        | --                                                         | --                                                          | --                                                                   | --                                                                     | --                                                                 | --                                                                    | --                                                                   | --                                                       |

[illegible]

GRAB SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|--------------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| JUL<br>16... | 1241 | 1.5                                                                   | 327                                                   |

| DATE  | TIME | ENDING<br>TIME | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260) |
|-------|------|----------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------|
|       |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| NOV   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 14-14 | 0055 | 1435           | .093                                                                     | 1.5                                                                            | 3.80                                                                     | .032                                                                     | .360                                                                     | .720                                                  | 2.8                                                      | <.050                                                                       | <.0500                                                         |
| NOV   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 20-20 | 0501 | 0928           | .092                                                                     | 3.7                                                                            | 1.30                                                                     | .015                                                                     | .250                                                                     | .860                                                  | 6.4                                                      | <.050                                                                       | <.0500                                                         |
| DEC   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 07-07 | 0730 | 1232           | .038                                                                     | 3.0                                                                            | .370                                                                     | .010                                                                     | .160                                                                     | .460                                                  | 11                                                       | <.050                                                                       | <.0500                                                         |
| DEC   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 10-11 | 1630 | 0207           | .068                                                                     | 1.7                                                                            | .460                                                                     | <.010                                                                    | .170                                                                     | .520                                                  | 6.5                                                      | <.050                                                                       | <.0500                                                         |
| DEC   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 11-12 | 1745 | 0346           | .014                                                                     | 1.5                                                                            | .220                                                                     | <.010                                                                    | .090                                                                     | .430                                                  | 3.1                                                      | <.050                                                                       | <.0500                                                         |
| DEC   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 23-23 | 0630 | 2306           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JAN   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 08-08 | 0344 | 1121           | .074                                                                     | 3.4                                                                            | .370                                                                     | <.010                                                                    | .120                                                                     | 1.10                                                  | --                                                       | <.050                                                                       | --                                                             |
| JAN   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 08-09 | 1837 | 0927           | .052                                                                     | 3.8                                                                            | .220                                                                     | <.010                                                                    | .100                                                                     | 1.30                                                  | 6.2                                                      | <.050                                                                       | --                                                             |
| JAN   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 17-18 | 2309 | 0107           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JAN   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 22-22 | 1010 | 2028           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JAN   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 29-29 | 0519 | 1618           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| FEB   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 27-27 | 1701 | 2359           | .019                                                                     | 2.9                                                                            | .110                                                                     | <.010                                                                    | .070                                                                     | .790                                                  | 6.9                                                      | <.050                                                                       | <.0500                                                         |
| MAR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 02-02 | 1513 | 2350           | .030                                                                     | 2.9                                                                            | .290                                                                     | <.010                                                                    | .060                                                                     | .980                                                  | --                                                       | <.050                                                                       | <.0500                                                         |
| MAR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 08-08 | 2047 | 2313           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| MAR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 12-13 | 2252 | 0244           | .020                                                                     | .74                                                                            | .250                                                                     | <.010                                                                    | .060                                                                     | .260                                                  | 9.0                                                      | <.050                                                                       | .170                                                           |
| MAR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 25-25 | 0440 | 0546           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| MAR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 31-31 | 0054 | 0200           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| APR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 03-04 | 2128 | 0349           | <.010                                                                    | 2.2                                                                            | <.020                                                                    | <.010                                                                    | .220                                                                     | .710                                                  | 21                                                       | <.050                                                                       | .0600                                                          |
| APR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 06-06 | 0142 | 0211           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| APR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 06-06 | 1327 | 1330           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| APR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 14-15 | 2003 | 0107           | .020                                                                     | 3.5                                                                            | .340                                                                     | .010                                                                     | .330                                                                     | 1.00                                                  | 14                                                       | <.050                                                                       | <.0500                                                         |
| MAY   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 05-05 | 2010 | 2242           | 2.30                                                                     | 7.3                                                                            | 4.30                                                                     | .070                                                                     | .170                                                                     | 1.10                                                  | 18                                                       | <.050                                                                       | <.0500                                                         |
| MAY   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 12-12 | 1933 | 2029           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JUL   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 14-15 | 1546 | 0715           | .500                                                                     | 1.5                                                                            | .700                                                                     | .020                                                                     | .110                                                                     | .440                                                  | 2.6                                                      | <.050                                                                       | <.0500                                                         |
| JUL   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 16-16 | 1240 | 1241           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JUL   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 16-16 | 1317 | 1611           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JUL   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 21-21 | 1121 | 2309           | .100                                                                     | .94                                                                            | .350                                                                     | .010                                                                     | .100                                                                     | .380                                                  | 2.9                                                      | <.050                                                                       | --                                                             |
| JUL   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 22-23 | 1226 | 0252           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JUL   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 23-23 | 1240 | 1454           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| AUG   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                          |                                                                             |                                                                |
| 07-08 | 1906 | 0942           | .080                                                                     | .52                                                                            | .180                                                                     | .010                                                                     | .090                                                                     | .310                                                  | 2.3                                                      | <.050                                                                       | <.0500                                                         |
| 09-10 | 2356 | 0005           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |



WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued  
0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued  
COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

[illegible]

## 0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued

COMPOSITE SAMPLE DATA. WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

[illegible]

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued

GRAB SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

|              |      |                                                                       |     |                                                       |
|--------------|------|-----------------------------------------------------------------------|-----|-------------------------------------------------------|
|              |      | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) |     | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
| DATE         | TIME |                                                                       |     |                                                       |
| MAR<br>19... | 1654 | .27                                                                   | 201 |                                                       |

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME | ENDING<br>TIME | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260) | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) |
|--------------|------|----------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| JAN<br>03-03 | 1417 | 2018           | .030                                                                     | 8.9                                                                            | .420                                                                     | <.010                                                                    | .100                                                                     | 2.80                                                  | 13                                                       | <.050                                                                       | <.050                                                          | <.050                                                          |
| JAN<br>08-08 | 1438 | 1858           | .120                                                                     | 2.5                                                                            | .200                                                                     | <.010                                                                    | .120                                                                     | .770                                                  | 8.8                                                      | --                                                                          | --                                                             | --                                                             |
| JAN<br>28-28 | 2018 | 2144           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             | --                                                             |
| FEB<br>13-13 | 1656 | 2155           | .030                                                                     | 7.9                                                                            | .210                                                                     | <.010                                                                    | .130                                                                     | 2.10                                                  | 8.5                                                      | <.050                                                                       | --                                                             | <.050                                                          |
| FEB<br>18-18 | 1858 | 2102           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             | --                                                             |
| FEB<br>26-26 | 1844 | 2015           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             | --                                                             |
| MAR<br>10-11 | 1641 | 0620           | .010                                                                     | 3.7                                                                            | .240                                                                     | <.010                                                                    | .230                                                                     | 1.30                                                  | 8.9                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| MAR<br>15-16 | 1743 | 1437           | .020                                                                     | 2.9                                                                            | .070                                                                     | <.010                                                                    | .160                                                                     | 1.00                                                  | 7.4                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| MAR<br>18-19 | 2134 | 0819           | .010                                                                     | 1.9                                                                            | <.020                                                                    | <.010                                                                    | .240                                                                     | .800                                                  | 7.5                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| MAR<br>27-27 | 0044 | 0356           | .010                                                                     | 3.6                                                                            | .200                                                                     | <.010                                                                    | .480                                                                     | 1.50                                                  | 8.5                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| MAR<br>29-29 | 1259 | 1456           | .010                                                                     | 2.8                                                                            | .080                                                                     | <.010                                                                    | .420                                                                     | 1.20                                                  | 11                                                       | <.050                                                                       | <.050                                                          | <.050                                                          |
| APR<br>01-02 | 1535 | 0003           | .020                                                                     | 3.4                                                                            | .030                                                                     | <.010                                                                    | .230                                                                     | 1.20                                                  | 4.9                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| APR<br>02-02 | 1830 | 2249           | .030                                                                     | 2.5                                                                            | .030                                                                     | <.010                                                                    | .140                                                                     | .840                                                  | 14                                                       | <.050                                                                       | <.050                                                          | <.050                                                          |
| APR<br>03-03 | 0203 | 0815           | .010                                                                     | 2.8                                                                            | .020                                                                     | <.010                                                                    | .120                                                                     | .790                                                  | 6.3                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| APR<br>12-13 | 2018 | 0647           | .040                                                                     | 2.8                                                                            | .030                                                                     | <.010                                                                    | .190                                                                     | .900                                                  | 13                                                       | <.050                                                                       | <.050                                                          | <.050                                                          |
| MAY<br>19-19 | 1430 | 1953           | 5.20                                                                     | 11                                                                             | 7.10                                                                     | .200                                                                     | .330                                                                     | 1.00                                                  | 11                                                       | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUN<br>04-04 | 1815 | 1915           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             | --                                                             |
| JUN<br>17-17 | 1615 | 1758           | 2.00                                                                     | 11                                                                             | 2.50                                                                     | .070                                                                     | .280                                                                     | 2.90                                                  | 5.5                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUN<br>18-18 | 1217 | 1402           | 1.60                                                                     | 10                                                                             | 2.80                                                                     | .070                                                                     | .210                                                                     | 2.70                                                  | 5.7                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUN<br>18-18 | 2129 | 2316           | 1.20                                                                     | 6.7                                                                            | 2.80                                                                     | .070                                                                     | .170                                                                     | 2.00                                                  | 6.0                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUL<br>13-14 | 1457 | 1855           | .290                                                                     | 1.0                                                                            | 1.50                                                                     | .500                                                                     | .150                                                                     | .440                                                  | 2.6                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUL<br>17-18 | 1254 | 1438           | .020                                                                     | .43                                                                            | .630                                                                     | .200                                                                     | .080                                                                     | .240                                                  | 2.7                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUL<br>19-20 | 1327 | 0910           | .020                                                                     | .42                                                                            | .920                                                                     | .200                                                                     | .090                                                                     | .290                                                  | 2.5                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUL<br>23-24 | 1817 | 0943           | .050                                                                     | .98                                                                            | .720                                                                     | .100                                                                     | .120                                                                     | .490                                                  | 2.4                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUL<br>24-25 | 1211 | 0436           | .090                                                                     | .55                                                                            | .340                                                                     | .040                                                                     | .080                                                                     | .300                                                  | 2.1                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUL<br>25-26 | 1843 | 1224           | .050                                                                     | .24                                                                            | .240                                                                     | .020                                                                     | .050                                                                     | .160                                                  | 1.8                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUL<br>26-27 | 1621 | 0717           | .050                                                                     | .29                                                                            | .590                                                                     | .050                                                                     | .080                                                                     | .290                                                  | 2.6                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued

COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

| DATE         | ANILINE<br>3-(TRI<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041) | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) |
|--------------|------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------|
| JAN<br>03-03 | <.050                                                                        | <.050                                                         | <.050                                                          | .050                                                                   | <.050                                                                    | .10                                                                        | <.050                                                                    | .250                                                                         | <.050                                                                       | .230                                                                 | <.050                                                     |
| JAN<br>08-08 | --                                                                           | --                                                            | --                                                             | --                                                                     | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                          | --                                                                   | --                                                        |
| JAN<br>28-28 | --                                                                           | --                                                            | --                                                             | --                                                                     | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                          | --                                                                   | --                                                        |
| FEB<br>13-13 | <.050                                                                        | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | .09                                                                        | <.050                                                                    | .120                                                                         | <.050                                                                       | .140                                                                 | <.050                                                     |
| FEB<br>18-18 | --                                                                           | --                                                            | --                                                             | --                                                                     | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                          | --                                                                   | --                                                        |
| FEB<br>26-26 | --                                                                           | --                                                            | --                                                             | --                                                                     | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                          | --                                                                   | --                                                        |
| MAR<br>10-11 | <.050                                                                        | .050                                                          | <.050                                                          | .070                                                                   | <.050                                                                    | .11                                                                        | <.050                                                                    | .220                                                                         | <.050                                                                       | .170                                                                 | <.050                                                     |
| MAR<br>15-16 | <.050                                                                        | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                    | .120                                                                         | <.050                                                                       | .080                                                                 | <.050                                                     |
| MAR<br>18-19 | <.050                                                                        | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                    | .230                                                                         | <.050                                                                       | .090                                                                 | <.050                                                     |
| MAR<br>27-27 | <.050                                                                        | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | .08                                                                        | <.050                                                                    | .520                                                                         | .130                                                                        | .190                                                                 | <.050                                                     |
| MAR<br>29-29 | <.050                                                                        | <.050                                                         | <.050                                                          | .140                                                                   | <.050                                                                    | .08                                                                        | <.050                                                                    | .420                                                                         | <.050                                                                       | .130                                                                 | <.050                                                     |
| APR<br>01-02 | <.050                                                                        | <.050                                                         | <.050                                                          | .090                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                    | .140                                                                         | <.050                                                                       | .050                                                                 | <.050                                                     |
| APR<br>02-02 | <.050                                                                        | <.050                                                         | <.050                                                          | .080                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                    | .170                                                                         | <.050                                                                       | .050                                                                 | <.050                                                     |
| APR<br>03-03 | <.050                                                                        | <.050                                                         | <.050                                                          | .220                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.050                                                                        | <.050                                                                       | <.050                                                                | <.050                                                     |
| APR<br>12-13 | <.050                                                                        | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                    | .430                                                                         | .160                                                                        | .120                                                                 | <.050                                                     |
| MAY<br>19-19 | 1.540                                                                        | .050                                                          | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                    | 7.27                                                                         | <.050                                                                       | 8.67                                                                 | <.050                                                     |
| JUN<br>04-04 | --                                                                           | --                                                            | --                                                             | --                                                                     | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                          | --                                                                   | --                                                        |
| JUN<br>17-17 | .070                                                                         | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                    | 3.21                                                                         | .150                                                                        | 6.00                                                                 | <.050                                                     |
| JUN<br>18-18 | <.050                                                                        | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.050                                                                        | <.050                                                                       | 1.45                                                                 | <.050                                                     |
| JUN<br>18-18 | .050                                                                         | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                    | 3.19                                                                         | <.050                                                                       | 4.39                                                                 | <.050                                                     |
| JUL<br>13-14 | .080                                                                         | <.050                                                         | 9.49                                                           | 1.05                                                                   | <.050                                                                    | .16                                                                        | <.050                                                                    | 1.53                                                                         | <.050                                                                       | 2.09                                                                 | <.050                                                     |
| JUL<br>17-18 | .090                                                                         | <.050                                                         | 9.68                                                           | 2.98                                                                   | <.050                                                                    | .07                                                                        | <.050                                                                    | 1.57                                                                         | .100                                                                        | 1.41                                                                 | <.050                                                     |
| JUL<br>19-20 | .060                                                                         | <.050                                                         | 6.24                                                           | 1.02                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                    | 1.32                                                                         | <.050                                                                       | 1.18                                                                 | <.050                                                     |
| JUL<br>23-24 | <.050                                                                        | <.050                                                         | 2.84                                                           | 1.16                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                    | .630                                                                         | <.050                                                                       | .410                                                                 | <.050                                                     |
| JUL<br>24-25 | <.050                                                                        | <.050                                                         | .900                                                           | .940                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                    | .300                                                                         | <.050                                                                       | .340                                                                 | <.050                                                     |
| JUL<br>25-26 | <.050                                                                        | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.050                                                                        | <.050                                                                       | .310                                                                 | <.050                                                     |
| JUL<br>26-27 | <.050                                                                        | <.050                                                         | 4.25                                                           | 4.81                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.050                                                                        | <.050                                                                       | .270                                                                 | <.050                                                     |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711610 UNKNOWN LAKE TRIBUTARY NO 1 NEAR SIDON, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

| DATE      | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PENDI-<br>METH-<br>ALIN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50376) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-----------|--------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------|
| JAN 03-03 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 3520                                                 |
| JAN 08-08 | --                                                                 | --                                                          | --                                                              | --                                                                    | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 432                                                  |
| JAN 28-28 | --                                                                 | --                                                          | --                                                              | --                                                                    | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 115                                                  |
| FEB 13-13 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 2520                                                 |
| FEB 18-18 | --                                                                 | --                                                          | --                                                              | --                                                                    | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 3880                                                 |
| FEB 26-26 | --                                                                 | --                                                          | --                                                              | --                                                                    | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1440                                                 |
| MAR 10-11 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 1710                                                 |
| MAR 15-16 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 1210                                                 |
| MAR 18-19 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 718                                                  |
| MAR 27-27 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 1500                                                 |
| MAR 29-29 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 898                                                  |
| APR 01-02 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 1330                                                 |
| APR 02-02 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 917                                                  |
| APR 03-03 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 913                                                  |
| APR 12-13 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 901                                                  |
| MAY 19-19 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | 2.41                                                                            | 1190                                                 |
| JUN 04-04 | --                                                                 | --                                                          | --                                                              | --                                                                    | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 3330                                                 |
| JUN 17-17 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | .250                                                                            | 4060                                                 |
| JUN 18-18 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 5040                                                 |
| JUN 18-18 | <.050                                                              | .050                                                        | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 3430                                                 |
| JUL 13-14 | <.050                                                              | <.050                                                       | <.050                                                           | <.050                                                                 | <.05                                                           | <.050                                                       | <.05                                                        | .140                                                          | <.05                                                                 | <.050                                                                           | 447                                                  |
| JUL 17-18 | <.050                                                              | <.050                                                       | <.050                                                           | <.050                                                                 | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 173                                                  |
| JUL 19-20 | <.050                                                              | <.050                                                       | <.050                                                           | <.050                                                                 | <.05                                                           | <.050                                                       | <.05                                                        | .120                                                          | <.05                                                                 | <.050                                                                           | 173                                                  |
| JUL 23-24 | <.050                                                              | <.050                                                       | <.050                                                           | <.050                                                                 | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 590                                                  |
| JUL 24-25 | <.050                                                              | <.050                                                       | <.050                                                           | <.050                                                                 | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 296                                                  |
| JUL 25-26 | .150                                                               | <.050                                                       | <.050                                                           | <.050                                                                 | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 108                                                  |
| JUL 26-27 | <.050                                                              | <.050                                                       | <.050                                                           | <.050                                                                 | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 183                                                  |

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE      | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-----------|------|-----------------------------------------------------------------------|------------------------------------------------------|
| MAR 19... | 1655 | .27                                                                   | 134                                                  |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS

LOCATION.--Lat 33°24'33", long 90°14'18", in SE $\frac{1}{4}$ , NW $\frac{1}{4}$  sec.19, T.18 N., R.1 E., Choctaw Meridian, Leflore County, Hydrologic Unit 08030206, on tributary approximately 50 ft upstream of Unknown Lake (locally referred to as Deep Hollow Lake), approximately 0.6 mi southeast of Yazoo River levee at Sidon Cutoff, 1.6 mi west of Illinois Central Gulf Railroad, 0.1 mi north of Fish Lake, and 1.5 mi west of Sidon.

DRAINAGE AREA.--0.04 mi<sup>2</sup> (25.4 acres).

PERIOD OF RECORD.--Water years 1996 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 118.10 ft above sea level. Automatic pumping water-quality and sediment samplers since March 1996.

REMARKS.--Unpublished records of gage height and discharge during selected storm events are available in files of District office. Occasionally, records of gage height and discharge were not computed due to backwater or malfunction of the instruments.

WATER YEAR 1996: No estimated discharges. Discharge records good.

WATER YEAR 1997: No estimated discharges. Discharge records good.

WATER YEAR 1998: No estimated discharges. Discharge records good.

WATER YEAR 1999: No estimated discharges. Discharge records good. Discharges during summer months may be due to irrigation.

WATER YEAR 2000: No estimated discharges. Discharge records good. Discharges during summer months may be due to irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 27 ft<sup>3</sup>/s, Jan. 29, 1999, gage height 2.09 ft; no flow for many days during each year.

EXTREMES FOR CURRENT YEAR.--

WATER YEAR 1996: Maximum discharge during period March to September, 17 ft<sup>3</sup>/s, Apr. 20, gage height, 1.62 ft; no flow for many days during year.

WATER YEAR 1997: Maximum discharge, 18 ft<sup>3</sup>/s, May 2, gage height 1.67 ft; no flow for many days during year.

WATER YEAR 1998: Maximum discharge, 20 ft<sup>3</sup>/s, May 29, gage height 1.79; no flow for many days during year.

WATER YEAR 1999: Maximum discharge 27 ft<sup>3</sup>/s, Jan. 29, gage height, 2.09 ft; no flow for many days during year.

WATER YEAR 2000: Maximum discharge, 25 ft<sup>3</sup>/s, Apr. 1, gage height 1.99 ft; no flow for many days during year.

## SELECTED RUNOFF EVENTS, 1996 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 04-14 | 1530 | .08         | --        | 06-01 | 1815 | .11         | 0.27      | 09-27 | 0330 | .12         | 0.30      |
| 04-14 | 1535 | .34         | 1.5       | 06-01 | 1820 | .41         | 2.1       | 09-27 | 0345 | .21         | 0.73      |
| 04-14 | 1540 | .50         | 2.8       | 06-01 | 1825 | .67         | 4.3       | 09-27 | 0400 | .27         | 1.1       |
| 04-14 | 1545 | .50         | 2.8       | 06-01 | 1830 | 1.03        | 7.5       | 09-27 | 0415 | .31         | 1.3       |
| 04-14 | 1550 | .70         | 4.6       | 06-01 | 1835 | 1.23        | 9.9       | 09-27 | 0430 | .34         | 1.5       |
| 04-14 | 1555 | .81         | 5.5       | 06-01 | 1840 | 1.33        | 11        | 09-27 | 0445 | .34         | 1.5       |
| 04-14 | 1600 | .88         | 6.1       | 06-01 | 1845 | 1.38        | 12        | 09-27 | 0500 | .35         | 1.6       |
| 04-14 | 1605 | .94         | 6.7       | 06-01 | 1850 | 1.41        | 13        | 09-27 | 0515 | .35         | 1.6       |
| 04-14 | 1610 | .98         | 7.0       | 06-01 | 1855 | 1.43        | 13        | 09-27 | 0530 | .33         | 1.5       |
| 04-14 | 1615 | .97         | 6.9       | 06-01 | 1900 | 1.42        | 13        | 09-27 | 0545 | .31         | 1.3       |
| 04-14 | 1620 | 1.01        | 7.3       | 06-01 | 1905 | 1.42        | 13        | 09-27 | 0600 | .30         | 1.3       |
| 04-14 | 1624 | 1.03        | 7.5       | 06-01 | 1910 | 1.41        | 13        | 09-27 | 0615 | .30         | 1.3       |
| 04-14 | 1632 | 1.04        | 7.6       | 06-01 | 1915 | 1.40        | 13        | 09-27 | 0630 | .28         | 1.1       |
| 04-14 | 1635 | 1.03        | 7.5       | 06-01 | 1930 | 1.38        | 12        | 09-27 | 0645 | .26         | 1.0       |
| 04-14 | 1640 | .97         | 6.9       | 06-01 | 1945 | 1.34        | 12        | 09-27 | 0700 | .24         | 0.90      |
| 04-14 | 1645 | .98         | 7.0       | 06-01 | 2000 | 1.29        | 11        | 09-27 | 0715 | .22         | 0.78      |
| 04-14 | 1650 | .91         | 6.4       | 06-01 | 2015 | 1.25        | 10        | 09-27 | 0730 | .19         | 0.62      |
| 04-14 | 1655 | .89         | 6.2       | 06-01 | 2030 | 1.22        | 9.7       |       |      |             |           |
| 04-14 | 1700 | .88         | 6.1       | 06-01 | 2045 | 1.18        | 9.2       |       |      |             |           |
| 04-14 | 1715 | .78         | 5.3       | 06-01 | 2100 | 1.10        | 8.2       |       |      |             |           |
| 04-14 | 1730 | .64         | 4.0       | 06-01 | 2115 | 1.00        | 7.2       |       |      |             |           |
| 04-14 | 1745 | .48         | 2.6       | 06-01 | 2130 | .83         | 5.7       |       |      |             |           |
| 04-14 | 1800 | .32         | 1.4       | 06-01 | 2145 | .61         | 3.8       |       |      |             |           |
| 04-14 | 1815 | .29         | 1.2       | 06-01 | 2200 | .36         | 1.7       |       |      |             |           |
| 04-14 | 1830 | .20         | 0.68      | 06-01 | 2215 | .20         | 0.68      |       |      |             |           |

## SELECTED RUNOFF EVENTS, 1997 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 01-23 | 2030 | .20         | 0.68      | 04-05 | 0825 | .12         | 0.30      | 07-13 | 1635 | .20         | 0.68      |
| 01-23 | 2100 | .41         | 2.1       | 04-05 | 0830 | .22         | 0.78      | 07-13 | 1640 | .43         | 2.2       |
| 01-23 | 2130 | .62         | 3.9       | 04-05 | 0845 | .36         | 1.7       | 07-13 | 1645 | .45         | 2.4       |
| 01-23 | 2200 | .83         | 5.7       | 04-05 | 0900 | .47         | 2.5       | 07-13 | 1650 | .45         | 2.4       |
| 01-23 | 2215 | .98         | 7.0       | 04-05 | 0915 | .56         | 3.3       | 07-13 | 1655 | .46         | 2.5       |
| 01-23 | 2230 | 1.12        | 8.4       | 04-05 | 0930 | .61         | 3.8       | 07-13 | 1700 | .49         | 2.7       |
| 01-23 | 2245 | 1.23        | 9.9       | 04-05 | 0945 | .66         | 4.2       | 07-13 | 1705 | .54         | 3.2       |
| 01-23 | 2300 | 1.31        | 11        | 04-05 | 1000 | .71         | 4.7       | 07-13 | 1710 | .59         | 3.6       |
| 01-23 | 2315 | 1.35        | 12        | 04-05 | 1015 | .73         | 4.8       | 07-13 | 1715 | .62         | 3.9       |
| 01-23 | 2330 | 1.37        | 12        | 04-05 | 1020 | .74         | 4.9       | 07-13 | 1720 | .63         | 4.0       |
| 01-23 | 2345 | 1.39        | 12        | 04-05 | 1030 | .73         | 4.8       | 07-13 | 1725 | .62         | 3.9       |
| 01-23 | 2400 | 1.41        | 13        | 04-05 | 1045 | .71         | 4.7       | 07-13 | 1730 | .60         | 3.7       |
| 01-24 | 0015 | 1.41        | 13        | 04-05 | 1100 | .67         | 4.3       | 07-13 | 1735 | .56         | 3.3       |
| 01-24 | 0030 | 1.39        | 12        | 04-05 | 1115 | .62         | 3.9       | 07-13 | 1740 | .51         | 2.9       |
| 01-24 | 0045 | 1.36        | 12        | 04-05 | 1130 | .57         | 3.4       | 07-13 | 1745 | .45         | 2.4       |
| 01-24 | 0100 | 1.33        | 11        | 04-05 | 1145 | .51         | 2.9       | 07-13 | 1750 | .38         | 1.8       |
| 01-24 | 0130 | 1.24        | 10        | 04-05 | 1200 | .46         | 2.5       | 07-13 | 1755 | .31         | 1.3       |
| 01-24 | 0200 | 1.14        | 8.7       | 04-05 | 1215 | .41         | 2.1       | 07-13 | 1800 | .25         | 0.95      |
| 01-24 | 0230 | 1.02        | 7.4       | 04-05 | 1230 | .36         | 1.7       | 07-13 | 1805 | .20         | 0.68      |
| 01-24 | 0300 | .91         | 6.4       | 04-05 | 1245 | .32         | 1.4       |       |      |             |           |
| 01-24 | 0400 | .81         | 5.5       | 04-05 | 1300 | .29         | 1.2       |       |      |             |           |
| 01-24 | 0500 | .69         | 4.5       | 04-05 | 1315 | .26         | 1.0       |       |      |             |           |
| 01-24 | 0600 | .53         | 3.1       | 04-05 | 1330 | .23         | 0.84      |       |      |             |           |
| 01-24 | 0700 | .38         | 1.8       | 04-05 | 1345 | .21         | 0.73      |       |      |             |           |
| 01-24 | 0800 | .30         | 1.3       |       |      |             |           |       |      |             |           |
| 01-24 | 0900 | .22         | 0.78      |       |      |             |           |       |      |             |           |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

## SELECTED RUNOFF EVENTS, 1998 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 01-05 | 0100 | .18         | 0.57      | 05-29 | 0400 | .17         | 0.52      | 07-21 | 1810 | .17         | 0.52      |
| 01-05 | 0115 | .25         | 0.95      | 05-29 | 0430 | .46         | 2.5       | 07-21 | 1815 | .40         | 2.0       |
| 01-05 | 0130 | .36         | 1.7       | 05-29 | 0500 | .59         | 3.6       | 07-21 | 1820 | .62         | 3.9       |
| 01-05 | 0145 | .55         | 3.2       | 05-29 | 0530 | .63         | 4.0       | 07-21 | 1825 | .82         | 5.6       |
| 01-05 | 0200 | .68         | 4.4       | 05-29 | 0545 | 1.01        | 7.3       | 07-21 | 1830 | .96         | 6.8       |
| 01-05 | 0215 | .79         | 5.4       | 05-29 | 0600 | 1.34        | 12        | 07-21 | 1835 | 1.07        | 7.9       |
| 01-05 | 0230 | .85         | 5.9       | 05-29 | 0615 | 1.49        | 14        | 07-21 | 1840 | 1.15        | 8.8       |
| 01-05 | 0245 | .88         | 6.1       | 05-29 | 0630 | 1.57        | 16        | 07-21 | 1845 | 1.22        | 9.7       |
| 01-05 | 0300 | .89         | 6.2       | 05-29 | 0645 | 1.70        | 18        | 07-21 | 1850 | 1.27        | 10        |
| 01-05 | 0315 | .90         | 6.3       | 05-29 | 0700 | 1.77        | 20        | 07-21 | 1855 | 1.29        | 11        |
| 01-05 | 0330 | .92         | 6.5       | 05-29 | 0715 | 1.78        | 20        | 07-21 | 1900 | 1.31        | 11        |
| 01-05 | 0345 | .93         | 6.6       | 05-29 | 0730 | 1.76        | 20        | 07-21 | 1905 | 1.31        | 11        |
| 01-05 | 0350 | .94         | 6.7       | 05-29 | 0745 | 1.72        | 19        | 07-21 | 1910 | 1.31        | 11        |
| 01-05 | 0400 | .93         | 6.6       | 05-29 | 0800 | 1.70        | 18        | 07-21 | 1915 | 1.30        | 11        |
| 01-05 | 0415 | .91         | 6.4       | 05-29 | 0830 | 1.62        | 17        | 07-21 | 1930 | 1.25        | 10        |
| 01-05 | 0430 | .86         | 6.0       | 05-29 | 0900 | 1.50        | 14        | 07-21 | 1945 | 1.18        | 9.2       |
| 01-05 | 0500 | .68         | 4.4       | 05-29 | 0930 | 1.40        | 13        | 07-21 | 2000 | 1.10        | 8.2       |
| 01-05 | 0530 | .39         | 1.9       | 05-29 | 1000 | 1.31        | 11        | 07-21 | 2015 | 1.01        | 7.3       |
| 01-05 | 0600 | .27         | 1.1       | 05-29 | 1030 | 1.18        | 9.2       | 07-21 | 2030 | .90         | 6.3       |
| 01-05 | 0630 | .21         | 0.68      | 05-29 | 1100 | 1.02        | 7.4       | 07-21 | 2045 | .74         | 4.9       |
|       |      |             |           | 05-29 | 1130 | .76         | 5.1       | 07-21 | 2100 | .50         | 2.8       |
|       |      |             |           | 05-29 | 1200 | .25         | 0.95      | 07-21 | 2115 | .25         | 0.95      |

## SELECTED RUNOFF EVENTS, 1999 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 01-29 | 0900 | .21         | 0.73      | 04-03 | 2125 | .15         | 0.43      | 05-05 | 2000 | .18         | 0.57      |
| 01-29 | 0930 | .25         | 0.95      | 04-03 | 2130 | .28         | 1.1       | 05-05 | 2015 | .30         | 1.3       |
| 01-29 | 1000 | .36         | 1.7       | 04-03 | 2145 | .78         | 5.3       | 05-05 | 2030 | .43         | 2.2       |
| 01-29 | 1030 | .55         | 3.2       | 04-03 | 2200 | 1.04        | 7.6       | 05-05 | 2045 | .50         | 2.8       |
| 01-29 | 1100 | .84         | 5.8       | 04-03 | 2215 | 1.16        | 8.9       | 05-05 | 2100 | .53         | 3.1       |
| 01-29 | 1130 | 1.00        | 7.2       | 04-03 | 2230 | 1.22        | 9.7       | 05-05 | 2115 | .56         | 3.3       |
| 01-29 | 1200 | 1.06        | 7.8       | 04-03 | 2245 | 1.24        | 10        | 05-05 | 2130 | .57         | 3.4       |
| 01-29 | 1230 | 1.17        | 9.0       | 04-03 | 2300 | 1.23        | 9.9       | 05-05 | 2145 | .58         | 3.5       |
| 01-29 | 1300 | 1.42        | 13        | 04-03 | 2315 | 1.20        | 9.4       | 05-05 | 2200 | .56         | 3.3       |
| 01-29 | 1330 | 1.93        | 23        | 04-03 | 2330 | 1.16        | 8.9       | 05-05 | 2215 | .53         | 3.1       |
| 01-29 | 1400 | 2.09        | 27        | 04-03 | 2345 | 1.12        | 8.4       | 05-05 | 2230 | .48         | 2.6       |
| 01-29 | 1430 | 2.06        | 26        | 04-03 | 2400 | 1.08        | 8.0       | 05-05 | 2245 | .43         | 2.2       |
| 01-29 | 1500 | 2.03        | 26        | 04-04 | 0015 | 1.03        | 7.5       | 05-05 | 2300 | .38         | 1.8       |
| 01-29 | 1530 | 1.97        | 24        | 04-04 | 0030 | .99         | 7.1       | 05-05 | 2315 | .33         | 1.5       |
| 01-29 | 1600 | 1.88        | 22        | 04-04 | 0100 | .91         | 6.4       | 05-05 | 2330 | .28         | 1.1       |
| 01-29 | 1630 | 1.74        | 19        | 04-04 | 0130 | .83         | 5.7       | 05-05 | 2345 | .25         | 0.95      |
| 01-29 | 1700 | 1.60        | 16        | 04-04 | 0200 | .72         | 4.8       | 05-05 | 2400 | .22         | 0.78      |
| 01-29 | 1730 | 1.46        | 14        | 04-04 | 0230 | .58         | 3.5       |       |      |             |           |
| 01-29 | 1800 | 1.31        | 11        | 04-04 | 0300 | .46         | 2.5       |       |      |             |           |
| 01-29 | 1830 | 1.15        | 8.8       | 04-04 | 0330 | .36         | 1.7       |       |      |             |           |
| 01-29 | 1900 | .95         | 6.8       | 04-04 | 0400 | .30         | 1.3       |       |      |             |           |
| 01-29 | 1930 | .65         | 4.1       | 04-04 | 0430 | .25         | 0.95      |       |      |             |           |
| 01-29 | 2000 | .30         | 1.3       | 04-04 | 0500 | .21         | 0.73      |       |      |             |           |
| 01-29 | 2030 | .20         | 0.68      |       |      |             |           |       |      |             |           |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

## SELECTED RUNOFF EVENTS, 2000 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage<br>Height | Discharge | Date  | Time | Gage<br>Height | Discharge | Date  | Time | Gage<br>Height | Discharge |
|-------|------|----------------|-----------|-------|------|----------------|-----------|-------|------|----------------|-----------|
| 02-13 | 1700 | .19            | 0.62      | 04-01 | 1830 | .19            | 0.62      | 06-17 | 1620 | .27            | 1.1       |
| 02-13 | 1715 | .29            | 1.2       | 04-01 | 1845 | .39            | 1.9       | 06-17 | 1625 | .44            | 2.3       |
| 02-13 | 1730 | .35            | 1.6       | 04-01 | 1900 | .71            | 4.7       | 06-17 | 1630 | .57            | 3.4       |
| 02-13 | 1745 | .38            | 1.8       | 04-01 | 1915 | 1.23           | 9.9       | 06-17 | 1635 | .68            | 4.4       |
| 02-13 | 1800 | .40            | 2.0       | 04-01 | 1930 | 1.50           | 14        | 06-17 | 1640 | .75            | 5.0       |
| 02-13 | 1815 | .42            | 2.1       | 04-01 | 1945 | 1.77           | 20        | 06-17 | 1645 | .80            | 5.4       |
| 02-13 | 1830 | .43            | 2.2       | 04-01 | 2000 | 1.92           | 23        | 06-17 | 1650 | .82            | 5.6       |
| 02-13 | 1845 | .43            | 2.2       | 04-01 | 2015 | 1.98           | 25        | 06-17 | 1655 | .84            | 5.8       |
| 02-13 | 1900 | .42            | 2.1       | 04-01 | 2030 | 1.98           | 25        | 06-17 | 1700 | .85            | 5.9       |
| 02-13 | 1915 | .40            | 2.0       | 04-01 | 2045 | 1.95           | 24        | 06-17 | 1705 | .85            | 5.9       |
| 02-13 | 1930 | .37            | 1.8       | 04-01 | 2100 | 1.91           | 23        | 06-17 | 1710 | .84            | 5.8       |
| 02-13 | 1945 | .35            | 1.6       | 04-01 | 2115 | 1.87           | 22        | 06-17 | 1715 | .83            | 5.7       |
| 02-13 | 2000 | .32            | 1.4       | 04-01 | 2130 | 1.80           | 20        | 06-17 | 1730 | .78            | 5.3       |
| 02-13 | 2015 | .29            | 1.2       | 04-01 | 2145 | 1.73           | 19        | 06-17 | 1745 | .69            | 4.5       |
| 02-13 | 2030 | .27            | 1.1       | 04-01 | 2200 | 1.67           | 18        | 06-17 | 1800 | .57            | 3.4       |
| 02-13 | 2045 | .25            | 0.95      | 04-01 | 2215 | 1.60           | 16        | 06-17 | 1815 | .43            | 2.2       |
| 02-13 | 2100 | .23            | 0.84      | 04-01 | 2230 | 1.52           | 15        | 06-17 | 1830 | .34            | 1.5       |
| 02-13 | 2115 | .21            | 0.73      | 04-01 | 2300 | 1.49           | 14        | 06-17 | 1845 | .29            | 1.2       |
|       |      |                |           | 04-01 | 2330 | 1.49           | 14        | 06-17 | 1900 | .24            | 0.90      |
|       |      |                |           | 04-01 | 2400 | 1.60           | 16        | 06-17 | 1915 | .21            | 0.73      |
|       |      |                |           | 04-02 | 0030 | 1.62           | 17        |       |      |                |           |
|       |      |                |           | 04-02 | 0100 | 1.65           | 17        |       |      |                |           |
|       |      |                |           | 04-02 | 0130 | 1.62           | 17        |       |      |                |           |
|       |      |                |           | 04-02 | 0200 | 1.57           | 16        |       |      |                |           |
|       |      |                |           | 04-02 | 0230 | 1.52           | 15        |       |      |                |           |
|       |      |                |           | 04-02 | 0300 | 1.44           | 13        |       |      |                |           |
|       |      |                |           | 04-02 | 0400 | 1.32           | 11        |       |      |                |           |
|       |      |                |           | 04-02 | 0500 | 1.36           | 12        |       |      |                |           |
|       |      |                |           | 04-02 | 0600 | 1.40           | 13        |       |      |                |           |
|       |      |                |           | 04-02 | 0700 | 1.28           | 11        |       |      |                |           |
|       |      |                |           | 04-02 | 0800 | 1.14           | 8.7       |       |      |                |           |
|       |      |                |           | 04-02 | 0900 | 1.07           | 7.9       |       |      |                |           |
|       |      |                |           | 04-02 | 1000 | .94            | 6.7       |       |      |                |           |
|       |      |                |           | 04-02 | 1100 | .66            | 4.2       |       |      |                |           |
|       |      |                |           | 04-02 | 1200 | .39            | 1.9       |       |      |                |           |
|       |      |                |           | 04-02 | 1300 | .27            | 1.1       |       |      |                |           |
|       |      |                |           | 04-02 | 1400 | .19            | 0.62      |       |      |                |           |

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued  
0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

GRAB SAMPLE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | OXYGEN, DIS-SOLVED (MG/L) (00300) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | TEMPER-ATURE WATER (DEG C) (00010) | NITRO-GEN, AMMONIA SOLVED (MG/L) (AS N) (00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (AS N) (00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (AS N) (00631) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (AS N) (00613) | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) (AS P) (00671) | PHOS-PHORUS TOTAL (MG/L) (AS P) (00665) |
|-------|------|-------------------------------------------------|-----------------------------------|------------------------------------------------|-----------------------------------------|------------------------------------|-------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------|
| MAR   |      |                                                 |                                   |                                                |                                         |                                    |                                                 |                                                           |                                                     |                                                     |                                                     |                                         |
| 18... | 1705 | .30                                             | 8.4                               | 5.9                                            | 106                                     | 13.5                               | 2.70                                            | 16                                                        | 8.20                                                | .040                                                | .360                                                | 1.10                                    |
| 18... | 1815 | <.23                                            | 8.2                               | 6.5                                            | 167                                     | 12.5                               | 3.00                                            | 18                                                        | 12.0                                                | .050                                                | .310                                                | .820                                    |
| APR   |      |                                                 |                                   |                                                |                                         |                                    |                                                 |                                                           |                                                     |                                                     |                                                     |                                         |
| 14... | 1655 | 6.1                                             | --                                | 5.9                                            | 40                                      | --                                 | .460                                            | 6.1                                                       | 2.40                                                | .030                                                | .190                                                | .840                                    |
| 14... | 1800 | 1.5                                             | --                                | 6.3                                            | 79                                      | --                                 | .530                                            | 4.1                                                       | 4.50                                                | .050                                                | .180                                                | .970                                    |
| 14... | 1838 | .39                                             | --                                | 6.5                                            | 135                                     | --                                 | .610                                            | 4.9                                                       | 7.80                                                | .090                                                | .140                                                | 1.40                                    |
| 20... | 2131 | 4.0                                             | 8.9                               | 6.1                                            | 41                                      | 19.0                               | .310                                            | 4.8                                                       | 2.80                                                | .020                                                | .170                                                | 1.40                                    |
| 20... | 2203 | 1.8                                             | 8.7                               | 5.6                                            | 69                                      | 18.5                               | .300                                            | 4.9                                                       | 3.60                                                | .030                                                | .160                                                | 1.30                                    |
| MAY   |      |                                                 |                                   |                                                |                                         |                                    |                                                 |                                                           |                                                     |                                                     |                                                     |                                         |
| 11... | 0730 | .39                                             | 9.0                               | 6.1                                            | 32                                      | 19.5                               | .120                                            | 5.8                                                       | 1.60                                                | .030                                                | .300                                                | 1.90                                    |
| JUN   |      |                                                 |                                   |                                                |                                         |                                    |                                                 |                                                           |                                                     |                                                     |                                                     |                                         |
| 01... | 1930 | 12                                              | 8.7                               | 5.6                                            | 23                                      | 21.5                               | .380                                            | 5.1                                                       | .920                                                | .010                                                | .230                                                | 1.60                                    |
| 01... | 2150 | 3.0                                             | 7.8                               | 5.6                                            | 44                                      | 22.0                               | .350                                            | 2.2                                                       | 2.60                                                | .020                                                | .190                                                | .740                                    |

| DATE  | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 3,4-DI-<br>CHLORO-<br>ANILINE | ALA-<br>CHLOR,<br>WATER, | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL) | ATRA-<br>ZINE,<br>WATER, | CYANA-<br>ZINE,<br>WATER, | CYANA-<br>ZINE-<br>AMIDE | DEETHYL<br>ATRA-<br>ZINE,<br>WATER, | DEISO-<br>PROPYL<br>ATRAZIN | DEISO-<br>PROPYL-<br>METRYN | DEMETH-<br>YLFLURO-<br>METURON | DEMETH-<br>YLNORF-<br>LURAZON |       |
|-------|----------------------------------------------------------|-------------------------------|--------------------------|-----------------------------------------|--------------------------|---------------------------|--------------------------|-------------------------------------|-----------------------------|-----------------------------|--------------------------------|-------------------------------|-------|
|       |                                                          | WATER                         | WATER,                   |                                         | WATER,                   | WATER,                    |                          | WATER,                              | WATER,                      | WATER                       | WATER                          | WATER                         |       |
|       |                                                          | FLTRD                         | DISS,                    | FILT,                                   | DISS,                    | DISS,                     |                          | DISS,                               | DISS,                       | DISS,                       | FLTRD                          | FLTRD                         | FLTRD |
|       |                                                          | REC                           | REC,                     | REC,                                    | REC                      | REC                       |                          | REC                                 | REC                         | REC                         | REC                            | REC                           | REC   |
|       |                                                          | (UG/L)<br>(50309)             | (UG/L)<br>(46342)        | (UG/L)<br>(50307)                       | (UG/L)<br>(39632)        | (UG/L)<br>(04041)         | (UG/L)<br>(61709)        | (UG/L)<br>(04040)                   | (UG/L)<br>(04038)           | (UG/L)<br>(50378)           | (UG/L)<br>(50379)              | (UG/L)<br>(50380)             |       |
| MAR   |                                                          |                               |                          |                                         |                          |                           |                          |                                     |                             |                             |                                |                               |       |
| 18... | 14                                                       | <.050                         | <.050                    | <.050                                   | .050                     | .060                      | .050                     | <.050                               | .13                         | <.050                       | .300                           | .180                          |       |
| 18... | 14                                                       | <.050                         | <.050                    | .050                                    | .060                     | <.050                     | .080                     | <.050                               | .14                         | <.050                       | .340                           | .130                          |       |
| APR   |                                                          |                               |                          |                                         |                          |                           |                          |                                     |                             |                             |                                |                               |       |
| 14... | 9.4                                                      | <.050                         | <.050                    | <.050                                   | .170                     | <.050                     | .080                     | <.050                               | .14                         | <.050                       | <.050                          | <.050                         |       |
| 14... | 10                                                       | <.050                         | <.050                    | <.050                                   | .110                     | <.050                     | .070                     | <.050                               | .12                         | <.050                       | .280                           | .190                          |       |
| 14... | 15                                                       | <.050                         | <.050                    | <.050                                   | .120                     | .050                      | .080                     | .050                                | .12                         | <.050                       | .340                           | .420                          |       |
| 20... | 15                                                       | <.050                         | <.050                    | <.050                                   | .100                     | <.050                     | .050                     | <.050                               | .09                         | <.050                       | .230                           | <.050                         |       |
| 20... | 15                                                       | <.050                         | <.050                    | <.050                                   | .120                     | <.050                     | <.050                    | <.050                               | .09                         | <.050                       | .150                           | <.050                         |       |
| MAY   |                                                          |                               |                          |                                         |                          |                           |                          |                                     |                             |                             |                                |                               |       |
| 11... | 11                                                       | <.050                         | <.050                    | 1.390                                   | <.050                    | <.050                     | <.050                    | <.050                               | <.05                        | <.050                       | 5.97                           | 3.41                          |       |
| JUN   |                                                          |                               |                          |                                         |                          |                           |                          |                                     |                             |                             |                                |                               |       |
| 01... | 4.2                                                      | <.050                         | <.050                    | .110                                    | <.050                    | <.050                     | <.050                    | <.050                               | <.05                        | <.050                       | .630                           | <.050                         |       |
| 01... | 4.7                                                      | .090                          | <.050                    | .090                                    | <.050                    | <.050                     | <.050                    | <.050                               | <.05                        | <.050                       | .730                           | <.050                         |       |

| DATE  | TIME | FLURO-MET-URON WATER FLTRD REC (UG/L) (61710) | METO-LACHLOR WATER DISSOLV (UG/L) (39415) | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630) | MOLI-NATE WATER FLTRD REC (UG/L) (50375) | NORFLU-RAZONE WATER FLTRD REC (UG/L) (50332) | PRO-METRYN, WATER, DISS, REC (UG/L) (04036) | PROP-ANIL WATER FLTRD REC (UG/L) (50377) | PROP-AZINE WATER DISS REC (UG/L) (38535) | SI-MAZINE, WATER, DISS, REC (UG/L) (04035) | UREA, 3-TRI-FLURO-METHYL-PHENYL UNFLTRD (UG/L) (50473) | SEDI-MENT, SUS-PENDED (MG/L) (80154) |
|-------|------|-----------------------------------------------|-------------------------------------------|-------------------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------|------------------------------------------|------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|
| MAR   |      |                                               |                                           |                                                 |                                          |                                              |                                             |                                          |                                          |                                            |                                                        |                                      |
| 18... |      | .390                                          | .050                                      | <.050                                           | <.050                                    | .110                                         | <.05                                        | <.050                                    | <.05                                     | <.050                                      | <.050                                                  | 797                                  |
| 18... |      | .480                                          | <.050                                     | <.050                                           | <.050                                    | .080                                         | <.05                                        | <.050                                    | <.05                                     | <.050                                      | <.050                                                  | 589                                  |
| APR   |      |                                               |                                           |                                                 |                                          |                                              |                                             |                                          |                                          |                                            |                                                        |                                      |
| 14... |      | .220                                          | .050                                      | <.050                                           | <.050                                    | <.050                                        | <.05                                        | <.050                                    | <.05                                     | <.050                                      | <.050                                                  | 2470                                 |
| 14... |      | .250                                          | .090                                      | <.050                                           | <.050                                    | .100                                         | <.05                                        | <.050                                    | <.05                                     | <.050                                      | <.050                                                  | 1000                                 |
| 14... |      | .320                                          | .100                                      | <.050                                           | <.050                                    | .230                                         | <.05                                        | <.050                                    | <.05                                     | <.050                                      | <.050                                                  | 1340                                 |
| 20... |      | .170                                          | <.050                                     | <.050                                           | <.050                                    | <.050                                        | <.05                                        | <.050                                    | <.05                                     | <.050                                      | <.050                                                  | 1420                                 |
| 20... |      | .220                                          | <.050                                     | <.050                                           | <.050                                    | <.050                                        | <.05                                        | <.050                                    | <.05                                     | <.050                                      | <.050                                                  | 2110                                 |
| MAY   |      |                                               |                                           |                                                 |                                          |                                              |                                             |                                          |                                          |                                            |                                                        |                                      |
| 11... | 297  | <.050                                         | <.050                                     | <.050                                           | .310                                     | 96.00                                        | <.05                                        | <.050                                    | <.05                                     | <.050                                      | <.050                                                  | 1820                                 |
| JUN   |      |                                               |                                           |                                                 |                                          |                                              |                                             |                                          |                                          |                                            |                                                        |                                      |
| 01... | 11.1 | <.050                                         | <.050                                     | <.050                                           | .050                                     | .050                                         | <.05                                        | <.050                                    | <.05                                     | <.050                                      | <.050                                                  | 1120                                 |
| 01... | 11.1 | <.050                                         | <.050                                     | <.050                                           | <.050                                    | 1.01                                         | <.05                                        | <.050                                    | <.05                                     | <.050                                      | <.050                                                  | 469                                  |

COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME | ENDING TIME | SEDI-MENT, SUS-PENDED (MG/L) (80154) |
|-------|------|-------------|--------------------------------------|
| SEP   |      |             |                                      |
| 21-21 | 0837 | 1013        | 1020                                 |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| SEP   |      |                                                                       |                                                       |
| 21... | 0837 | .73                                                                   | 1600                                                  |
| 21... | 0857 | .90                                                                   | 1010                                                  |
| 21... | 0915 | .95                                                                   | 592                                                   |
| 21... | 0933 | .95                                                                   | 349                                                   |
| 21... | 0951 | .84                                                                   | 245                                                   |
| 21... | 1013 | .68                                                                   | 168                                                   |
| 27... | 0346 | .73                                                                   | 1990                                                  |
| 27... | 0402 | 1.1                                                                   | 1060                                                  |
| 27... | 0415 | 1.3                                                                   | 742                                                   |
| 27... | 0427 | 1.5                                                                   | 526                                                   |
| 27... | 0437 | 1.5                                                                   | 482                                                   |
| 27... | 0448 | 1.6                                                                   | 390                                                   |
| 27... | 0458 | 1.6                                                                   | 278                                                   |
| 27... | 0508 | 1.6                                                                   | 229                                                   |
| 27... | 0518 | 1.5                                                                   | 203                                                   |
| 27... | 0528 | 1.5                                                                   | 170                                                   |
| 27... | 0539 | 1.4                                                                   | 147                                                   |
| 27... | 0551 | 1.3                                                                   | 126                                                   |
| 27... | 0604 | 1.3                                                                   | 128                                                   |
| 27... | 0617 | 1.3                                                                   | 131                                                   |
| 27... | 0630 | 1.1                                                                   | 143                                                   |
| 27... | 0645 | 1.0                                                                   | 121                                                   |
| 27... | 0702 | .90                                                                   | 97                                                    |
| 27... | 0723 | .68                                                                   | 80                                                    |

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued  
0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued  
COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE         | TIME                                                           | ENDING<br>TIME                                                                | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                    | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                    | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)      |
|--------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|
| NOV<br>01-01 | 1538                                                           | 1641                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| NOV<br>07-07 | 1212                                                           | 1456                                                                          | .160                                                                     | 1.7                                                                            | 1.30                                                                     | .024                                                                     | .480                                                                       | .740                                                                     | --                                                                          | <.050                                                                       | <.0500                                                              |
| NOV<br>30-30 | 0752                                                           | 0942                                                                          | .062                                                                     | 1.6                                                                            | .290                                                                     | .010                                                                     | .370                                                                       | .660                                                                     | --                                                                          | <.050                                                                       | <.0500                                                              |
| DEC<br>26-26 | 1513                                                           | 2102                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| JAN<br>15-15 | 1458                                                           | 1750                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| JAN<br>27-28 | 2148                                                           | 0338                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>07-07 | 1548                                                           | 2131                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>12-13 | 2217                                                           | 0700                                                                          | <.010                                                                    | 1.2                                                                            | <.020                                                                    | <.010                                                                    | .100                                                                       | .410                                                                     | --                                                                          | <.050                                                                       | <.0500                                                              |
| FEB<br>26-27 | 2310                                                           | 0353                                                                          | .014                                                                     | 1.8                                                                            | <.020                                                                    | <.010                                                                    | .160                                                                       | .490                                                                     | --                                                                          | <.050                                                                       | <.0500                                                              |
| APR<br>05-05 | 0830                                                           | 1300                                                                          | .071                                                                     | 2.6                                                                            | .070                                                                     | <.010                                                                    | .490                                                                       | .780                                                                     | --                                                                          | <.050                                                                       | <.0500                                                              |
| APR<br>27-27 | 0912                                                           | 1238                                                                          | 1.80                                                                     | 5.2                                                                            | 4.40                                                                     | .300                                                                     | .180                                                                       | 1.00                                                                     | 12                                                                          | <.050                                                                       | <.0500                                                              |
| JUN<br>10-11 | 1921                                                           | 1101                                                                          | .016                                                                     | 4.0                                                                            | .820                                                                     | .014                                                                     | .090                                                                       | 1.40                                                                     | 3.9                                                                         | <.050                                                                       | <.0500                                                              |
| JUL<br>04-04 | 2245                                                           | 2303                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| JUL<br>13-13 | 1654                                                           | 1953                                                                          | .110                                                                     | 3.1                                                                            | 1.20                                                                     | .024                                                                     | .170                                                                       | .880                                                                     | 6.5                                                                         | <.050                                                                       | <.0500                                                              |
| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)   | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLUO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| NOV<br>01-01 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| NOV<br>07-07 | <.050                                                          | .050                                                                          | <.050                                                                    | .230                                                                           | .100                                                                     | <.0500                                                                   | <.0500                                                                     | <.050                                                                    | .760                                                                        | .480                                                                        | .700                                                                |
| NOV<br>30-30 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.0500                                                                         | .230                                                                     | <.0500                                                                   | <.0500                                                                     | <.050                                                                    | .680                                                                        | .320                                                                        | .710                                                                |
| DEC<br>26-26 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| JAN<br>15-15 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| JAN<br>27-28 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>07-07 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>12-13 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                    | .050                                                                        | .200                                                                        | .050                                                                |
| FEB<br>26-27 | <.050                                                          | <.050                                                                         | <.050                                                                    | .0600                                                                          | .090                                                                     | <.0500                                                                   | <.0500                                                                     | <.050                                                                    | <.050                                                                       | 1.03                                                                        | <.050                                                               |
| APR<br>05-05 | <.050                                                          | <.050                                                                         | <.050                                                                    | .0700                                                                          | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                    | <.050                                                                       | .100                                                                        | .080                                                                |
| APR<br>27-27 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | .0800                                                                      | <.050                                                                    | .620                                                                        | .160                                                                        | .560                                                                |
| JUN<br>10-11 | <.050                                                          | .070                                                                          | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                    | 1.20                                                                        | .220                                                                        | 4.80                                                                |
| JUL<br>04-04 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| JUL<br>13-13 | <.050                                                          | <.050                                                                         | <.050                                                                    | .0500                                                                          | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                    | .540                                                                        | .130                                                                        | 1.26                                                                |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDEED<br>(MG/L)<br>(80154) |
|--------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------|
| NOV<br>01-01 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 321                                                    |
| NOV<br>07-07 | <.050                                                     | <.050                                                    | <.050                                                       | .550                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 284                                                    |
| NOV<br>30-30 | <.050                                                     | <.050                                                    | <.050                                                       | .370                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 348                                                    |
| DEC<br>26-26 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 318                                                    |
| JAN<br>15-15 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 639                                                    |
| JAN<br>27-28 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 476                                                    |
| FEB<br>07-07 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 301                                                    |
| FEB<br>12-13 | <.050                                                     | <.050                                                    | <.050                                                       | .210                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 453                                                    |
| FEB<br>26-27 | <.050                                                     | <.050                                                    | <.050                                                       | .760                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 412                                                    |
| APR<br>05-05 | .060                                                      | <.050                                                    | <.050                                                       | .060                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 237                                                    |
| APR<br>27-27 | <.050                                                     | <.050                                                    | <.050                                                       | .150                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 670                                                    |
| JUN<br>10-11 | <.050                                                     | 6.91                                                     | <.050                                                       | .170                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1410                                                   |
| JUL<br>04-04 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1830                                                   |
| JUL<br>13-13 | <.050                                                     | .160                                                     | <.050                                                       | .070                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | --                                                     |

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDEED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------|
| OCT   |      |                                                                       |                                                        |
| 25... | 2242 | .95                                                                   | 1390                                                   |
| 25... | 2249 | 1.0                                                                   | 1360                                                   |
| 25... | 2257 | .95                                                                   | 833                                                    |
| 26... | 0308 | .95                                                                   | 500                                                    |
| 26... | 0314 | 1.1                                                                   | 329                                                    |
| 26... | 0323 | 1.3                                                                   | 222                                                    |
| 26... | 0332 | 1.3                                                                   | 786                                                    |
| 26... | 0339 | 1.2                                                                   | 567                                                    |
| 26... | 0348 | 1.1                                                                   | 368                                                    |
| 26... | 0356 | 1.1                                                                   | 261                                                    |
| 26... | 0408 | .95                                                                   | 191                                                    |
| 26... | 0416 | .90                                                                   | 150                                                    |
| NOV   |      |                                                                       |                                                        |
| 01... | 1532 | .95                                                                   | 550                                                    |
| 01... | 1551 | 1.6                                                                   | 560                                                    |
| 01... | 1603 | 1.6                                                                   | 408                                                    |
| 01... | 1610 | 1.6                                                                   | 346                                                    |
| 01... | 1617 | 1.5                                                                   | 290                                                    |
| 01... | 1625 | 1.5                                                                   | 240                                                    |
| 07... | 1216 | 1.3                                                                   | 395                                                    |
| 07... | 1227 | 1.4                                                                   | 367                                                    |
| 07... | 1237 | 1.8                                                                   | 352                                                    |
| 07... | 1246 | 2.0                                                                   | 352                                                    |
| 07... | 1254 | 2.1                                                                   | 329                                                    |
| 07... | 1301 | 2.2                                                                   | 334                                                    |
| 07... | 1309 | 2.2                                                                   | 323                                                    |
| 07... | 1316 | 2.2                                                                   | 303                                                    |
| 07... | 1324 | 2.1                                                                   | 291                                                    |
| 07... | 1331 | 2.1                                                                   | 266                                                    |
| 07... | 1337 | 2.1                                                                   | 241                                                    |
| 07... | 1347 | 2.1                                                                   | 222                                                    |
| 07... | 1356 | 2.0                                                                   | 205                                                    |
| 07... | 1404 | 1.8                                                                   | 197                                                    |
| 07... | 1413 | 1.8                                                                   | 188                                                    |
| 07... | 1423 | 1.5                                                                   | 180                                                    |
| 07... | 1433 | 1.4                                                                   | 173                                                    |
| 07... | 1444 | 1.4                                                                   | 166                                                    |
| 07... | 1456 | 1.3                                                                   | 157                                                    |
| 30... | 0752 | 1.3                                                                   | 559                                                    |
| 30... | 0801 | 1.9                                                                   | 775                                                    |
| 30... | 0808 | 2.5                                                                   | 685                                                    |
| 30... | 0814 | 3.0                                                                   | 601                                                    |
| 30... | 0819 | 3.3                                                                   | 644                                                    |
| 30... | 0824 | 3.6                                                                   | 582                                                    |
| 30... | 0829 | 3.8                                                                   | 502                                                    |
| 30... | 0833 | 3.9                                                                   | 470                                                    |
| 30... | 0837 | 4.0                                                                   | 379                                                    |
| 30... | 0842 | 4.1                                                                   | 335                                                    |
| 30... | 0846 | 4.1                                                                   | 299                                                    |
| 30... | 0850 | 4.2                                                                   | 275                                                    |
| 30... | 0854 | 4.2                                                                   | 265                                                    |
| 30... | 0858 | 4.2                                                                   | 251                                                    |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| NOV   |      |                                                                       |                                                       |
| 30... | 0902 | 4.2                                                                   | 237                                                   |
| 30... | 0906 | 4.2                                                                   | 240                                                   |
| 30... | 0910 | 4.1                                                                   | 230                                                   |
| 30... | 0915 | 4.0                                                                   | 230                                                   |
| 30... | 0919 | 4.0                                                                   | 228                                                   |
| 30... | 0923 | 3.9                                                                   | 224                                                   |
| 30... | 0928 | 3.8                                                                   | 217                                                   |
| 30... | 0932 | 3.7                                                                   | 210                                                   |
| 30... | 0937 | 3.5                                                                   | 203                                                   |
| 30... | 0942 | 3.3                                                                   | 197                                                   |
| DEC   |      |                                                                       |                                                       |
| 16... | 0916 | 1.3                                                                   | 184                                                   |
| 16... | 0925 | 1.3                                                                   | 188                                                   |
| 16... | 0937 | 1.4                                                                   | 170                                                   |
| 16... | 1000 | 1.3                                                                   | 152                                                   |
| 16... | 1012 | 1.4                                                                   | 147                                                   |
| 16... | 1024 | 1.4                                                                   | 145                                                   |
| 16... | 1035 | 1.5                                                                   | 136                                                   |
| 16... | 1045 | 1.7                                                                   | 137                                                   |
| 16... | 1054 | 1.8                                                                   | 143                                                   |
| 16... | 1102 | 2.0                                                                   | 144                                                   |
| 16... | 1110 | 2.1                                                                   | 150                                                   |
| 16... | 1118 | 2.1                                                                   | 142                                                   |
| 16... | 1126 | 2.1                                                                   | 140                                                   |
| 16... | 1134 | 2.1                                                                   | 136                                                   |
| 16... | 1142 | 2.0                                                                   | 129                                                   |
| 16... | 1151 | 2.0                                                                   | 120                                                   |
| 16... | 1159 | 1.8                                                                   | 119                                                   |
| 16... | 1208 | 1.8                                                                   | 114                                                   |
| 16... | 1217 | 1.7                                                                   | 116                                                   |
| 16... | 1227 | 1.7                                                                   | 111                                                   |
| 16... | 1237 | 1.6                                                                   | 114                                                   |
| 16... | 1247 | 1.6                                                                   | 105                                                   |
| 16... | 1257 | 1.6                                                                   | 106                                                   |
| 26... | 1416 | 1.3                                                                   | 655                                                   |
| 26... | 1424 | 1.5                                                                   | 678                                                   |
| 26... | 1434 | 1.8                                                                   | 665                                                   |
| 26... | 1443 | 1.9                                                                   | 564                                                   |
| 26... | 1451 | 2.0                                                                   | 475                                                   |
| 26... | 1459 | 2.1                                                                   | 418                                                   |
| 26... | 1507 | 2.1                                                                   | 366                                                   |
| 26... | 1515 | 2.0                                                                   | 336                                                   |
| 26... | 1523 | 2.0                                                                   | 312                                                   |
| 26... | 1532 | 1.9                                                                   | 290                                                   |
| 26... | 1541 | 1.8                                                                   | 269                                                   |
| 26... | 1550 | 1.7                                                                   | 259                                                   |
| 26... | 1600 | 1.6                                                                   | 251                                                   |
| 26... | 1611 | 1.5                                                                   | 243                                                   |
| 26... | 1623 | 1.3                                                                   | 234                                                   |
| 26... | 1628 | 1.3                                                                   | 230                                                   |
| 26... | 1852 | 1.3                                                                   | 202                                                   |
| 26... | 1902 | 1.4                                                                   | 206                                                   |
| 26... | 1914 | 1.5                                                                   | 229                                                   |
| 26... | 1924 | 1.5                                                                   | 241                                                   |
| 26... | 1934 | 1.6                                                                   | 240                                                   |
| 26... | 1944 | 1.8                                                                   | 223                                                   |
| 26... | 1953 | 1.8                                                                   | 218                                                   |
| 26... | 2002 | 1.9                                                                   | 210                                                   |
| JAN   |      |                                                                       |                                                       |
| 07... | 0307 | 1.3                                                                   | 448                                                   |
| 07... | 0315 | 1.3                                                                   | 353                                                   |
| 07... | 0327 | 1.5                                                                   | 254                                                   |
| 07... | 0338 | 1.5                                                                   | 207                                                   |
| 07... | 0347 | 1.5                                                                   | 182                                                   |
| 07... | 0400 | 1.4                                                                   | 161                                                   |
| 07... | 0412 | 1.3                                                                   | 153                                                   |
| 07... | 0424 | 1.3                                                                   | 147                                                   |
| 07... | 0427 | 1.3                                                                   | 153                                                   |
| 15... | 1401 | 1.3                                                                   | 2220                                                  |
| 15... | 1410 | 1.5                                                                   | 2200                                                  |
| 15... | 1420 | 1.8                                                                   | 1950                                                  |
| 15... | 1428 | 2.0                                                                   | 1580                                                  |
| 15... | 1436 | 2.1                                                                   | 1300                                                  |
| 15... | 1444 | 2.2                                                                   | 1080                                                  |
| 15... | 1451 | 2.2                                                                   | 901                                                   |
| 15... | 1457 | 2.3                                                                   | 781                                                   |
| 15... | 1506 | 2.3                                                                   | 684                                                   |
| 15... | 1513 | 2.3                                                                   | 617                                                   |
| 15... | 1520 | 2.3                                                                   | 579                                                   |
| 15... | 1528 | 2.2                                                                   | 540                                                   |
| 15... | 1535 | 2.2                                                                   | 489                                                   |
| 15... | 1543 | 2.1                                                                   | 454                                                   |
| 15... | 1551 | 2.0                                                                   | 427                                                   |
| 15... | 1559 | 1.9                                                                   | 402                                                   |
| 15... | 1608 | 1.8                                                                   | 388                                                   |
| 15... | 1616 | 1.7                                                                   | 394                                                   |
| 15... | 1628 | 1.5                                                                   | 418                                                   |
| 15... | 1639 | 1.4                                                                   | 350                                                   |
| 15... | 1651 | 1.3                                                                   | 400                                                   |
| 23... | 2044 | 1.3                                                                   | 1900                                                  |
| 23... | 2054 | 1.7                                                                   | 1940                                                  |
| 23... | 2102 | 2.1                                                                   | 1400                                                  |
| 23... | 2109 | 2.5                                                                   | 1160                                                  |
| 23... | 2115 | 3.0                                                                   | 958                                                   |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

|       |       |                                                 |                                          | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)    |                                          | SEDI-MENT, SUS-PENDED (MG/L) (80154)         |                                              |                                  |                                                       |                                      |  |
|-------|-------|-------------------------------------------------|------------------------------------------|----------------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------|-------------------------------------------------------|--------------------------------------|--|
| DATE  | TIME  |                                                 |                                          |                                                    |                                          |                                              |                                              |                                  |                                                       |                                      |  |
| JAN   |       |                                                 |                                          |                                                    |                                          |                                              |                                              |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2120                                               | 3.3                                      |                                              | 883                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2125                                               | 3.6                                      |                                              | 859                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2130                                               | 3.9                                      |                                              | 735                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2136                                               | 4.1                                      |                                              | 699                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2138                                               | 4.2                                      |                                              | 716                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2142                                               | 4.3                                      |                                              | 659                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2146                                               | 4.6                                      |                                              | 651                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2150                                               | 4.8                                      |                                              | 587                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2153                                               | 5.0                                      |                                              | 663                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2157                                               | 5.4                                      |                                              | 671                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2200                                               | 5.7                                      |                                              | 665                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2203                                               | 6.0                                      |                                              | 690                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2205                                               | 6.1                                      |                                              | 743                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2208                                               | 6.4                                      |                                              | 735                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2211                                               | 6.7                                      |                                              | 761                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2213                                               | 6.8                                      |                                              | 824                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2215                                               | 7.0                                      |                                              | 769                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2218                                               | 7.2                                      |                                              | 688                                          |                                  |                                                       |                                      |  |
|       | 23... |                                                 |                                          | 2220                                               | 7.4                                      |                                              | 641                                          |                                  |                                                       |                                      |  |
| DATE  | TIME  | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | NITRO-GEN, AMMONIA SOLVED (MG/L) (00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625) | NITRO-GEN, NO2+NO3 SOLVED (MG/L) (00631) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613) | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) (00671) | PHOS-PHORUS TOTAL (MG/L) (00665) | FLUO-METURON WAT FLT REC IMMUNO. UNADJ (UG/L) (99773) | SEDI-MENT, SUS-PENDED (MG/L) (80154) |  |
| APR   |       |                                                 |                                          |                                                    |                                          |                                              |                                              |                                  |                                                       |                                      |  |
| 05... | 0836  | 1.3                                             | .022                                     | 4.4                                                | .120                                     | <.010                                        | .340                                         | 1.50                             | <.25                                                  | 1810                                 |  |
| 05... | 0915  | 3.3                                             | .034                                     | 2.6                                                | .470                                     | <.010                                        | .400                                         | .840                             | <.25                                                  | 906                                  |  |
| 05... | 0942  | 4.1                                             | .030                                     | 2.3                                                | .390                                     | <.010                                        | .420                                         | .710                             | <.25                                                  | 229                                  |  |
| 05... | 1005  | 4.8                                             | .066                                     | 2.2                                                | .250                                     | <.010                                        | .440                                         | .700                             | <.25                                                  | 177                                  |  |
| 05... | 1026  | 4.9                                             | .042                                     | 2.3                                                | .100                                     | <.010                                        | .480                                         | .770                             | <.25                                                  | 154                                  |  |
| 05... | 1048  | 4.6                                             | .042                                     | 2.4                                                | <.020                                    | <.010                                        | .570                                         | .820                             | <.25                                                  | 126                                  |  |
| 05... | 1112  | 4.0                                             | .038                                     | 2.4                                                | <.020                                    | <.010                                        | .660                                         | .910                             | <.25                                                  | 106                                  |  |
| 05... | 1141  | 3.1                                             | .052                                     | 1.9                                                | <.020                                    | <.010                                        | .700                                         | .880                             | <.25                                                  | 91                                   |  |
| 05... | 1224  | 1.8                                             | .050                                     | 2.5                                                | <.020                                    | <.010                                        | .690                                         | .900                             | <.25                                                  | 73                                   |  |
| 27... | 0814  | 1.3                                             | .670                                     | 5.4                                                | 3.20                                     | .190                                         | .180                                         | 1.70                             | <.25                                                  | 1430                                 |  |
| 27... | 0847  | 3.7                                             | 1.20                                     | 4.8                                                | 3.90                                     | .270                                         | .160                                         | .680                             | .57                                                   | 1310                                 |  |
| 27... | 0912  | 4.5                                             | 1.40                                     | 4.8                                                | 3.80                                     | .250                                         | .170                                         | 1.00                             | .69                                                   | 851                                  |  |
| 27... | 0935  | 4.8                                             | 1.50                                     | 4.5                                                | 3.80                                     | .240                                         | .180                                         | .910                             | .47                                                   | 649                                  |  |
| 27... | 0956  | 4.7                                             | 1.80                                     | 4.7                                                | 3.90                                     | .250                                         | .180                                         | .920                             | .83                                                   | 542                                  |  |
| 27... | 1019  | 4.2                                             | 2.10                                     | 5.0                                                | 4.30                                     | .290                                         | .200                                         | .890                             | .92                                                   | 480                                  |  |
| 27... | 1048  | 2.9                                             | E2.70                                    | E5.7                                               | E5.20                                    | E.370                                        | E.210                                        | E.810                            | .98                                                   | 455                                  |  |
| MAY   |       |                                                 |                                          |                                                    |                                          |                                              |                                              |                                  |                                                       |                                      |  |
| 27... | 0723  | 1.3                                             | .250                                     | E9.3                                               | 2.50                                     | .015                                         | .130                                         | 1.70                             | 86.0                                                  | 3470                                 |  |
| 27... | 0746  | 4.5                                             | .220                                     | E9.6                                               | 1.70                                     | .016                                         | .170                                         | 1.10                             | 61.5                                                  | 3640                                 |  |
| 27... | 0806  | 6.0                                             | .230                                     | E9.1                                               | 1.40                                     | .023                                         | .140                                         | 1.00                             | 55.5                                                  | 3510                                 |  |
| 27... | 0823  | 6.2                                             | .190                                     | E6.9                                               | 1.30                                     | .021                                         | .150                                         | .920                             | 34.4                                                  | 2740                                 |  |
| 27... | 0841  | 5.6                                             | .150                                     | E4.9                                               | 1.30                                     | .019                                         | .160                                         | 1.70                             | 31.8                                                  | 1800                                 |  |
| 27... | 0902  | 4.3                                             | .120                                     | 3.6                                                | 1.70                                     | .018                                         | .170                                         | 1.20                             | 19.5                                                  | 1170                                 |  |
| 28... | 0042  | 1.3                                             | .200                                     | 3.7                                                | 4.50                                     | .042                                         | .080                                         | .990                             | 42.6                                                  | 790                                  |  |
| 28... | 0115  | 2.3                                             | .230                                     | 3.7                                                | 3.10                                     | .035                                         | .110                                         | 1.10                             | 44.5                                                  | 726                                  |  |
| 28... | 0152  | 3.0                                             | .140                                     | 3.4                                                | 2.10                                     | .025                                         | .120                                         | .860                             | 28.0                                                  | 704                                  |  |
| 28... | 0230  | 2.5                                             | .120                                     | 2.5                                                | 1.90                                     | .024                                         | .120                                         | .670                             | 10.2                                                  | 515                                  |  |
| 28... | 0317  | 1.8                                             | .110                                     | 2.2                                                | 2.10                                     | .024                                         | .130                                         | .600                             | 9.30                                                  | 368                                  |  |
| 28... | 0341  | 1.5                                             | .130                                     | 2.2                                                | 2.60                                     | .027                                         | .130                                         | .570                             | 9.50                                                  | 312                                  |  |
| JUN   |       |                                                 |                                          |                                                    |                                          |                                              |                                              |                                  |                                                       |                                      |  |
| 09... | 1512  | 1.0                                             | .020                                     | 9.6                                                | .650                                     | .017                                         | .220                                         | 3.80                             | --                                                    | 5280                                 |  |
| 09... | 1533  | 6.4                                             | .021                                     | 6.2                                                | .690                                     | .020                                         | .240                                         | 2.60                             | 17.9                                                  | 5080                                 |  |
| 09... | 1546  | 7.9                                             | .076                                     | 6.5                                                | .990                                     | .026                                         | .230                                         | 2.50                             | 17.3                                                  | 3060                                 |  |
| 09... | 1558  | 8.2                                             | .086                                     | 5.3                                                | 1.00                                     | .020                                         | .230                                         | 1.90                             | 18.3                                                  | 2410                                 |  |
| 09... | 1610  | 8.0                                             | .042                                     | 4.0                                                | 1.00                                     | .016                                         | .270                                         | 1.60                             | 16.4                                                  | 1530                                 |  |
| 09... | 1623  | 7.6                                             | .060                                     | 3.1                                                | 1.00                                     | .013                                         | .240                                         | 1.20                             | 12.0                                                  | 1060                                 |  |
| 09... | 1637  | 6.9                                             | .062                                     | 3.0                                                | 1.10                                     | .014                                         | .230                                         | 1.10                             | 17.2                                                  | 728                                  |  |
| 09... | 1653  | 6.0                                             | .057                                     | 2.4                                                | 1.30                                     | .020                                         | .260                                         | .970                             | 16.0                                                  | 597                                  |  |
| 09... | 1713  | 4.2                                             | .030                                     | 2.6                                                | 2.30                                     | .043                                         | .340                                         | .940                             | 8.39                                                  | 483                                  |  |
| 09... | 2320  | 1.2                                             | .072                                     | 3.2                                                | 1.40                                     | .024                                         | .130                                         | 1.00                             | 11.1                                                  | 730                                  |  |
| 09... | 2353  | 4.1                                             | .024                                     | 2.5                                                | 1.10                                     | .020                                         | .120                                         | .860                             | 8.19                                                  | 841                                  |  |
| 10... | 0015  | 5.4                                             | .050                                     | 2.1                                                | 1.10                                     | .017                                         | .120                                         | .710                             | 4.10                                                  | 773                                  |  |
| 10... | 0033  | 5.8                                             | .035                                     | 2.0                                                | 1.20                                     | .016                                         | .140                                         | .630                             | 4.79                                                  | 560                                  |  |
| 10... | 0050  | 6.0                                             | .048                                     | 2.0                                                | 1.20                                     | .017                                         | .130                                         | .590                             | 3.81                                                  | 463                                  |  |
| 10... | 0107  | 6.1                                             | .033                                     | 1.8                                                | 1.20                                     | .016                                         | .130                                         | .560                             | 3.85                                                  | 388                                  |  |
| 10... | 0123  | 6.2                                             | .034                                     | 1.9                                                | 1.20                                     | .017                                         | .130                                         | .630                             | 3.49                                                  | 360                                  |  |
| 10... | 0140  | 6.1                                             | .012                                     | 2.0                                                | 1.20                                     | .020                                         | .140                                         | .610                             | 4.45                                                  | 381                                  |  |
| 10... | 0157  | 5.7                                             | .045                                     | 1.6                                                | 1.50                                     | .018                                         | .150                                         | .510                             | 3.94                                                  | 398                                  |  |
| 10... | 0216  | 4.9                                             | .048                                     | 1.4                                                | 2.20                                     | .016                                         | .140                                         | .460                             | 1.24                                                  | 326                                  |  |
| 10... | 0241  | 3.6                                             | .047                                     | 1.5                                                | 2.10                                     | .014                                         | .130                                         | .450                             | 5.86                                                  | 238                                  |  |
| 10... | 0314  | 2.9                                             | --                                       | --                                                 | --                                       | --                                           | --                                           | --                               | --                                                    | 240                                  |  |
| 10... | 1923  | .95                                             | .050                                     | 5.0                                                | 2.50                                     | .014                                         | .060                                         | 1.60                             | 25.9                                                  | 1540                                 |  |
| 10... | 1954  | 5.5                                             | .027                                     | 5.3                                                | .960                                     | <.010                                        | .100                                         | 1.70                             | 10.1                                                  | 2120                                 |  |
| 10... | 2010  | 7.0                                             | .030                                     | 4.3                                                | .630                                     | <.010                                        | .100                                         | 1.60                             | 9.30                                                  | 2050                                 |  |
| 10... | 2023  | 7.7                                             | .021                                     | 4.6                                                | .450                                     | <.010                                        | .110                                         | 1.80                             | 9.89                                                  | 1740                                 |  |
| 10... | 2036  | 7.6                                             | .054                                     | 1.2                                                | .340                                     | <.010                                        | .100                                         | .500                             | 4.90                                                  | 1780                                 |  |
| 10... | 2049  | 7.2                                             | .047                                     | 4.2                                                | .340                                     | <.010                                        | .100                                         | 1.40                             | 5.11                                                  | 1400                                 |  |
| 10... | 2104  | 6.5                                             | .040                                     | 3.2                                                | .370                                     | .010                                         | .100                                         | 1.20                             | 4.83                                                  | 1050                                 |  |
| 10... | 2122  | 5.2                                             | <.010                                    | 2.4                                                | .510                                     | .012                                         | .120                                         | .770                             | 3.50                                                  | 693                                  |  |
| 11... | 0228  | 1.1                                             | .074                                     | 11                                                 | 1.60                                     | .016                                         | .140                                         | 5.10                             | 10.3                                                  | 6330                                 |  |
| 11... | 0310  | 4.5                                             | .100                                     | 5.3                                                | .990                                     | .016                                         | .100                                         | 1.60                             | 9.97                                                  | 4400                                 |  |
| 11... | 0337  | 2.9                                             | .044                                     | 3.0                                                | .820                                     | .014                                         | .110                                         | .970                             | 7.09                                                  | 1060                                 |  |
| 11... | 0855  | .90                                             | .068                                     | 7.7                                                | 1.40                                     | <.010                                        | .090                                         | 1.90                             | 4.34                                                  | 4470                                 |  |
| 11... | 0910  | 2.7                                             | .066                                     | 6.0                                                | 1.50                                     | .012                                         | .090                                         | 1.60                             | 7.69                                                  | 3810                                 |  |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | FLUO-<br>METURON<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99773) | SEDI-<br>MENT,<br>SUS-<br>PENDEED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------|
| JUN   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                        |
| 11... | 0924 | 7.8                                                                   | .071                                                                     | 6.0                                                                           | .780                                                                     | .013                                                                     | .130                                                                     | 1.60                                                  | 6.40                                                                        | 2820                                                   |
| 11... | 0942 | 8.6                                                                   | .064                                                                     | 4.5                                                                           | .620                                                                     | .012                                                                     | .110                                                                     | 1.40                                                  | 7.34                                                                        | 2430                                                   |
| 11... | 0953 | 8.8                                                                   | .056                                                                     | 4.2                                                                           | .500                                                                     | .013                                                                     | .110                                                                     | 1.30                                                  | 6.33                                                                        | 1790                                                   |
| 11... | 1004 | 8.3                                                                   | .042                                                                     | 4.0                                                                           | .510                                                                     | .011                                                                     | .110                                                                     | 1.20                                                  | 5.27                                                                        | 1590                                                   |
| 11... | 1030 | 7.0                                                                   | .052                                                                     | 2.8                                                                           | .780                                                                     | .012                                                                     | .130                                                                     | 1.00                                                  | 5.16                                                                        | 1120                                                   |
| 11... | 1046 | 6.0                                                                   | .080                                                                     | 2.2                                                                           | .900                                                                     | .012                                                                     | .140                                                                     | .760                                                  | 4.97                                                                        | 779                                                    |
| 17... | 0828 | 1.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 3750                                                   |
| 17... | 0857 | 4.8                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 3360                                                   |
| 17... | 0928 | 3.1                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1280                                                   |
| 28... | 2000 | 1.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 2560                                                   |
| JUL   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                        |
| 04... | 2246 | 1.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 3380                                                   |
| 13... | 1636 | 1.4                                                                   | .040                                                                     | 5.2                                                                           | .670                                                                     | <.010                                                                    | .150                                                                     | 1.60                                                  | .47                                                                         | 5120                                                   |
| 13... | 1712 | 3.8                                                                   | .062                                                                     | 2.3                                                                           | .660                                                                     | .014                                                                     | .140                                                                     | .770                                                  | 1.15                                                                        | 2340                                                   |
| 13... | 1741 | 2.8                                                                   | .085                                                                     | 1.7                                                                           | 1.20                                                                     | .016                                                                     | .160                                                                     | .500                                                  | 1.23                                                                        | 698                                                    |

## DISCRETE SAMPLE SUPPLEMENTAL DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE  | TIME  | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260) | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041) | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) |
|-------|-------|-----------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAY   |       |                                                                             |                                                                |                                                                |                                                                               |                                                               |                                                                |                                                                        |                                                                          |                                                                            |                                                                |                                                                             |
| 27... | 0723  | <.050                                                                       | <.0500                                                         | <.050                                                          | .190                                                                          | .050                                                          | <.0500                                                         | <.050                                                                  | <.0500                                                                   | .540                                                                       | <.050                                                          | 5.94                                                                        |
| 27... | 0823  | <.050                                                                       | <.0500                                                         | <.050                                                          | .610                                                                          | .050                                                          | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | 3.08                                                                        |
| 28... | 0115  | <.050                                                                       | <.0500                                                         | <.050                                                          | .080                                                                          | .070                                                          | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | 2.91                                                                        |
| 28... | 0152  | <.050                                                                       | <.0500                                                         | <.050                                                          | .480                                                                          | .060                                                          | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | 1.81                                                                        |
| JUN   |       |                                                                             |                                                                |                                                                |                                                                               |                                                               |                                                                |                                                                        |                                                                          |                                                                            |                                                                |                                                                             |
| 09... | 1558  | <.050                                                                       | <.0500                                                         | <.050                                                          | .070                                                                          | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | 1.88                                                                        |
| 09... | 1623  | <.050                                                                       | <.0500                                                         | <.050                                                          | .060                                                                          | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | <.050                                                                       |
| 09... | 2320  | <.050                                                                       | <.0500                                                         | <.050                                                          | .080                                                                          | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | .640                                                                        |
| 09... | 2353  | <.050                                                                       | <.0500                                                         | <.050                                                          | .070                                                                          | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | .720                                                                        |
| 10... | 0015  | <.050                                                                       | <.0500                                                         | <.050                                                          | .080                                                                          | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | .470                                                                        |
| 10... | 0140  | <.050                                                                       | <.0500                                                         | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | <.050                                                                       |
| 10... | 0241  | <.050                                                                       | <.0500                                                         | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | <.050                                                                       |
| 10... | 1923  | <.050                                                                       | <.0500                                                         | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | 1.19                                                                        |
| 10... | 2036  | <.050                                                                       | <.0500                                                         | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | .900                                                                        |
| 11... | 0228  | <.050                                                                       | <.0500                                                         | <.050                                                          | .080                                                                          | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | 1.19                                                                        |
| 11... | 0910  | <.050                                                                       | <.0500                                                         | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | 1.12                                                                        |
| 11... | 0924  | <.050                                                                       | <.0500                                                         | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | 1.06                                                                        |
| JUL   |       |                                                                             |                                                                |                                                                |                                                                               |                                                               |                                                                |                                                                        |                                                                          |                                                                            |                                                                |                                                                             |
| 13... | 1741  | <.050                                                                       | <.0500                                                         | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                          | <.050                                                                       |
| MAY   |       |                                                                             |                                                                |                                                                |                                                                               |                                                               |                                                                |                                                                        |                                                                          |                                                                            |                                                                |                                                                             |
| 27... | .250  | 80.3                                                                        | .090                                                           | <.050                                                          | .150                                                                          | .180                                                          | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 27... | .300  | 42.7                                                                        | .070                                                           | <.050                                                          | .190                                                                          | .210                                                          | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 28... | .220  | 33.0                                                                        | .080                                                           | <.050                                                          | <.050                                                                         | .190                                                          | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 28... | .060  | 17.0                                                                        | .070                                                           | <.050                                                          | <.050                                                                         | .050                                                          | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| JUN   |       |                                                                             |                                                                |                                                                |                                                                               |                                                               |                                                                |                                                                        |                                                                          |                                                                            |                                                                |                                                                             |
| 09... | .250  | 8.36                                                                        | <.050                                                          | 10.6                                                           | <.050                                                                         | .160                                                          | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 09... | <.050 | 2.23                                                                        | <.050                                                          | 16.4                                                           | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 09... | <.050 | 6.46                                                                        | <.050                                                          | 22.0                                                           | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 09... | .240  | 5.18                                                                        | <.050                                                          | 21.6                                                           | <.050                                                                         | .150                                                          | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 10... | .220  | 3.82                                                                        | <.050                                                          | 25.5                                                           | <.050                                                                         | .090                                                          | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 10... | <.050 | 2.36                                                                        | <.050                                                          | 25.0                                                           | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 10... | <.050 | 3.09                                                                        | <.050                                                          | 36.3                                                           | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 10... | <.050 | 22.3                                                                        | <.050                                                          | 6.42                                                           | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 10... | <.050 | 3.14                                                                        | <.050                                                          | 7.82                                                           | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 11... | .230  | 5.05                                                                        | <.050                                                          | 8.36                                                           | <.050                                                                         | .120                                                          | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 11... | <.050 | 6.04                                                                        | <.050                                                          | 8.03                                                           | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| 11... | <.050 | 4.49                                                                        | <.050                                                          | 6.60                                                           | --                                                                            | .060                                                          | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |
| JUL   |       |                                                                             |                                                                |                                                                |                                                                               |                                                               |                                                                |                                                                        |                                                                          |                                                                            |                                                                |                                                                             |
| 13... | <.050 | .590                                                                        | <.050                                                          | .230                                                           | <.050                                                                         | <.050                                                         | <.0500                                                         | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                           | <.050                                                                       |

COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

| DATE         | TIME                                                           | ENDING<br>TIME                                                                | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                     | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |  |
|--------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|--|
|              |                                                                |                                                                               |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |  |
|              |                                                                |                                                                               |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |  |
| OCT<br>25-26 | 2357                                                           | 0015                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| OCT<br>31-31 | 1105                                                           | 1149                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| NOV<br>28-29 | 2357                                                           | 0432                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| DEC<br>21-21 | 0706                                                           | 1125                                                                          | .014                                                                     | 5.0                                                                            | .240                                                                     | <.010                                                                    | .190                                                                       | 1.50                                                                      | 8.9                                                                          | <.050                                                                       | <.0500                                                               |  |
| DEC<br>23-23 | 1534                                                           | 2103                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| JAN<br>06-06 | 0956                                                           | 1558                                                                          | .048                                                                     | 3.7                                                                            | .120                                                                     | <.010                                                                    | .140                                                                       | 1.60                                                                      | 5.6                                                                          | <.050                                                                       | <.0500                                                               |  |
| JAN<br>12-12 | 0224                                                           | 0358                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| JAN<br>15-15 | 1654                                                           | 2150                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| JAN<br>21-22 | 1904                                                           | 0711                                                                          | <.010                                                                    | 2.1                                                                            | .030                                                                     | <.010                                                                    | .070                                                                       | .860                                                                      | 4.7                                                                          | <.050                                                                       | <.0500                                                               |  |
| JAN<br>26-27 | 2138                                                           | 1444                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| FEB<br>01-01 | 1552                                                           | 1622                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| FEB<br>10-10 | 1942                                                           | 2325                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| FEB<br>15-15 | 1945                                                           | 2305                                                                          | <.010                                                                    | 2.1                                                                            | <.020                                                                    | <.010                                                                    | .080                                                                       | .700                                                                      | 4.6                                                                          | <.050                                                                       | <.0500                                                               |  |
| MAR<br>07-07 | 1050                                                           | 1835                                                                          | .025                                                                     | 1.6                                                                            | <.020                                                                    | <.010                                                                    | .060                                                                       | .590                                                                      | 7.6                                                                          | <.050                                                                       | <.0500                                                               |  |
| APR<br>28-28 | 0031                                                           | 0414                                                                          | .370                                                                     | 2.8                                                                            | 1.70                                                                     | .084                                                                     | .150                                                                       | .540                                                                      | 9.2                                                                          | <.050                                                                       | --                                                                   |  |
| APR<br>30-30 | 0114                                                           | 0523                                                                          | .200                                                                     | 2.2                                                                            | .890                                                                     | .018                                                                     | .110                                                                       | .440                                                                      | 6.9                                                                          | <.050                                                                       | --                                                                   |  |
| MAY<br>29-29 | 0414                                                           | 0853                                                                          | .250                                                                     | 2.9                                                                            | 2.10                                                                     | .050                                                                     | .220                                                                       | 1.00                                                                      | 6.4                                                                          | <.050                                                                       | <.0500                                                               |  |
| JUL<br>12-13 | 0702                                                           | 0839                                                                          | .016                                                                     | 1.7                                                                            | 1.80                                                                     | .020                                                                     | .170                                                                       | .470                                                                      | 6.1                                                                          | --                                                                          | --                                                                   |  |
| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3- (TRI<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)   | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |  |
| OCT<br>25-26 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| OCT<br>31-31 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| NOV<br>28-29 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| DEC<br>21-21 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .060                                                                         | <.050                                                                       | .220                                                                 |  |
| DEC<br>23-23 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| JAN<br>06-06 | <.050                                                          | <.050                                                                         | <.050                                                                    | .0800                                                                          | .580                                                                     | <.0500                                                                   | .250                                                                       | <.050                                                                     | .430                                                                         | <.050                                                                       | .350                                                                 |  |
| JAN<br>12-12 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| JAN<br>15-15 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| JAN<br>21-22 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .070                                                                         | .090                                                                        | .050                                                                 |  |
| JAN<br>26-27 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| FEB<br>01-01 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| FEB<br>10-10 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |
| FEB<br>15-15 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.0500                                                                         | .100                                                                     | <.0500                                                                   | .200                                                                       | <.050                                                                     | .170                                                                         | .070                                                                        | .080                                                                 |  |
| MAR<br>07-07 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | .210                                                                       | <.050                                                                     | .590                                                                         | .280                                                                        | .120                                                                 |  |
| APR<br>28-28 | <.050                                                          | <.050                                                                         | .130                                                                     | <.0500                                                                         | <.050                                                                    | .0500                                                                    | .200                                                                       | <.050                                                                     | .120                                                                         | <.050                                                                       | .060                                                                 |  |
| APR<br>30-30 | <.050                                                          | <.050                                                                         | .050                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .120                                                                         | .110                                                                        | <.050                                                                |  |
| MAY<br>29-29 | <.050                                                          | .170                                                                          | .100                                                                     | <.0500                                                                         | <.050                                                                    | .0700                                                                    | .200                                                                       | <.050                                                                     | 4.93                                                                         | <.050                                                                       | 13.2                                                                 |  |
| JUL<br>12-13 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |  |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

| DATE      | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>SENSOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>REC<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-----------|-----------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------|
| OCT 25-26 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                            | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 1530                                                 |
| OCT 31-31 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                            | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 504                                                  |
| NOV 28-29 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                            | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 542                                                  |
| DEC 21-21 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                        | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 1480                                                 |
| DEC 23-23 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                            | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 1090                                                 |
| JAN 06-06 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                        | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 1250                                                 |
| JAN 12-12 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                            | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 695                                                  |
| JAN 15-15 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                            | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 577                                                  |
| JAN 21-22 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                        | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 646                                                  |
| JAN 26-27 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                            | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 622                                                  |
| FEB 01-01 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                            | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 609                                                  |
| FEB 10-10 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                            | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 771                                                  |
| FEB 15-15 | <.050                                                     | <.050                                                              | <.050                                                       | .080                                                            | <.0500                                                        | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 551                                                  |
| MAR 07-07 | <.050                                                     | <.050                                                              | <.050                                                       | .080                                                            | <.0500                                                        | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 393                                                  |
| APR 28-28 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                        | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 638                                                  |
| APR 30-30 | .070                                                      | .090                                                               | <.050                                                       | <.050                                                           | <.0500                                                        | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 312                                                  |
| MAY 29-29 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                        | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 760                                                  |
| JUL 12-13 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                            | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | --                                                   |

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

| DATE      | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-----------|------|-----------------------------------------------------------------------|------------------------------------------------------|
| OCT 25... | 2358 | 1.2                                                                   | 2130                                                 |
| 31...     | 1105 | 1.3                                                                   | 1430                                                 |
| 31...     | 1139 | 1.3                                                                   | 595                                                  |
| 31...     | 1144 | 1.3                                                                   | 407                                                  |
| 31...     | 1148 | 1.3                                                                   | 376                                                  |
| DEC 21... | 0706 | 1.3                                                                   | 1310                                                 |
| 21...     | 0736 | 2.9                                                                   | 1530                                                 |
| 21...     | 0800 | 4.1                                                                   | 2280                                                 |
| 21...     | 0819 | 4.6                                                                   | 2620                                                 |
| 21...     | 0837 | 4.6                                                                   | 2380                                                 |
| 21...     | 0857 | 4.3                                                                   | 1960                                                 |
| 21...     | 0917 | 4.0                                                                   | 1640                                                 |
| 21...     | 0942 | 3.2                                                                   | 1340                                                 |
| 21...     | 1009 | 2.7                                                                   | 1020                                                 |
| 21...     | 1042 | 2.2                                                                   | 910                                                  |
| 21...     | 1125 | 1.5                                                                   | 971                                                  |
| 21...     | 1139 | 1.3                                                                   | 948                                                  |
| 23...     | 1533 | 1.3                                                                   | 1740                                                 |
| 23...     | 1537 | 1.3                                                                   | 1840                                                 |
| 23...     | 1551 | 1.3                                                                   | 1860                                                 |
| 23...     | 1554 | 1.3                                                                   | 1720                                                 |
| 23...     | 1643 | 1.3                                                                   | 1500                                                 |
| 23...     | 1718 | 2.1                                                                   | 1220                                                 |
| 23...     | 1751 | 2.7                                                                   | 1240                                                 |
| 23...     | 1822 | 2.6                                                                   | 1180                                                 |
| 23...     | 1856 | 2.1                                                                   | 919                                                  |
| 23...     | 1936 | 1.9                                                                   | 716                                                  |
| 23...     | 2013 | 3.1                                                                   | 627                                                  |
| 23...     | 2036 | 4.2                                                                   | 1010                                                 |
| 23...     | 2054 | 5.1                                                                   | 1530                                                 |
| 23...     | 2111 | 5.2                                                                   | 1720                                                 |
| 23...     | 2127 | 5.2                                                                   | 1480                                                 |
| 23...     | 2145 | 4.8                                                                   | 1130                                                 |
| 23...     | 2204 | 4.0                                                                   | 907                                                  |
| 23...     | 2230 | 2.7                                                                   | 653                                                  |
| 23...     | 2311 | 1.6                                                                   | 607                                                  |
| 23...     | 2359 | 1.8                                                                   | 639                                                  |
| 24...     | 0037 | 2.8                                                                   | 702                                                  |
| 24...     | 0103 | 3.8                                                                   | 965                                                  |
| 24...     | 0124 | 4.1                                                                   | 1340                                                 |
| 24...     | 0144 | 4.5                                                                   | 1330                                                 |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

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## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| JAN   |      |                                                                       |                                                       |
| 06... | 0956 | 1.3                                                                   | 2170                                                  |
| 06... | 1026 | 2.7                                                                   | 1930                                                  |
| 06... | 1055 | 2.7                                                                   | 1430                                                  |
| 06... | 1134 | 1.6                                                                   | 909                                                   |
| 06... | 1147 | 1.2                                                                   | 673                                                   |
| 06... | 1559 | 1.3                                                                   | 761                                                   |
| 12... | 0224 | 1.3                                                                   | 1230                                                  |
| 12... | 0231 | 1.3                                                                   | 886                                                   |
| 12... | 0245 | 1.2                                                                   | 780                                                   |
| 12... | 0256 | 1.3                                                                   | 750                                                   |
| 12... | 0301 | 1.3                                                                   | 693                                                   |
| 12... | 0306 | 1.3                                                                   | 698                                                   |
| 12... | 0311 | 1.3                                                                   | 690                                                   |
| 12... | 0321 | 1.3                                                                   | 706                                                   |
| 12... | 0324 | 1.3                                                                   | 695                                                   |
| 15... | 1654 | 1.3                                                                   | 737                                                   |
| 15... | 1719 | 2.1                                                                   | 650                                                   |
| 15... | 1757 | 2.2                                                                   | 770                                                   |
| 15... | 1837 | 1.8                                                                   | 790                                                   |
| 15... | 1859 | 1.3                                                                   | 689                                                   |
| 15... | 1912 | 1.3                                                                   | 614                                                   |
| 15... | 1940 | 1.3                                                                   | 606                                                   |
| 15... | 2027 | 1.3                                                                   | 546                                                   |
| 15... | 2114 | 1.5                                                                   | 483                                                   |
| 21... | 1904 | 1.3                                                                   | 1050                                                  |
| 21... | 1948 | 1.3                                                                   | 955                                                   |
| 21... | 1955 | 1.4                                                                   | 721                                                   |
| 21... | 2341 | 1.3                                                                   | 636                                                   |
| 21... | 2345 | 1.1                                                                   | 615                                                   |
| 22... | 0002 | 1.2                                                                   | 618                                                   |
| 22... | 0013 | 1.3                                                                   | 632                                                   |
| 22... | 0032 | 1.3                                                                   | 597                                                   |
| 22... | 0035 | 1.3                                                                   | 572                                                   |
| 22... | 0252 | 1.3                                                                   | 637                                                   |
| 22... | 0321 | 2.4                                                                   | 801                                                   |
| 22... | 0350 | 3.2                                                                   | 894                                                   |
| 22... | 0413 | 4.2                                                                   | 900                                                   |
| 22... | 0432 | 4.5                                                                   | 851                                                   |
| 22... | 0451 | 4.6                                                                   | 802                                                   |
| 22... | 0510 | 4.1                                                                   | 682                                                   |
| 22... | 0531 | 3.9                                                                   | 597                                                   |
| 22... | 0557 | 2.6                                                                   | 556                                                   |
| 22... | 0637 | 1.5                                                                   | 491                                                   |
| 22... | 0650 | 1.3                                                                   | 497                                                   |
| 26... | 2138 | 1.2                                                                   | 833                                                   |
| 26... | 2225 | 2.2                                                                   | 732                                                   |
| 26... | 2302 | 2.6                                                                   | 632                                                   |
| 26... | 2333 | 2.7                                                                   | 596                                                   |
| 27... | 0005 | 2.5                                                                   | 538                                                   |
| FEB   |      |                                                                       |                                                       |
| 01... | 1554 | 1.3                                                                   | 737                                                   |
| 01... | 1603 | 1.3                                                                   | 724                                                   |
| 10... | 1929 | 1.2                                                                   | 1420                                                  |
| 10... | 1957 | 3.3                                                                   | 1500                                                  |
| 10... | 2018 | 4.6                                                                   | 1320                                                  |
| 10... | 2036 | 5.0                                                                   | 958                                                   |
| 10... | 2053 | 5.1                                                                   | 775                                                   |
| 10... | 2110 | 5.0                                                                   | 716                                                   |
| 10... | 2127 | 5.0                                                                   | 682                                                   |
| 10... | 2144 | 5.0                                                                   | 609                                                   |
| 10... | 2202 | 4.9                                                                   | 639                                                   |
| 10... | 2219 | 4.7                                                                   | 684                                                   |
| 10... | 2239 | 4.0                                                                   | 643                                                   |
| 10... | 2305 | 2.6                                                                   | 587                                                   |
| 10... | 2348 | 1.3                                                                   | 551                                                   |
| 15... | 1944 | 1.2                                                                   | 836                                                   |
| 15... | 2013 | 2.5                                                                   | 722                                                   |
| 15... | 2041 | 3.7                                                                   | 581                                                   |
| 15... | 2102 | 4.5                                                                   | 608                                                   |
| 15... | 2120 | 4.8                                                                   | 589                                                   |
| 15... | 2138 | 4.8                                                                   | 588                                                   |
| 15... | 2158 | 4.1                                                                   | 516                                                   |
| 15... | 2222 | 2.9                                                                   | 430                                                   |
| 15... | 2304 | 1.4                                                                   | 354                                                   |
| 15... | 2310 | 1.3                                                                   | 355                                                   |
| 16... | 0417 | 1.1                                                                   | 384                                                   |
| 16... | 0439 | 1.3                                                                   | 389                                                   |
| 16... | 2105 | 1.1                                                                   | 770                                                   |
| 16... | 2131 | 4.3                                                                   | 1030                                                  |
| 16... | 2147 | 6.0                                                                   | 1160                                                  |
| 16... | 2200 | 6.8                                                                   | 1190                                                  |
| 16... | 2212 | 7.2                                                                   | 1110                                                  |
| 16... | 2224 | 7.3                                                                   | 1070                                                  |
| 16... | 2235 | 7.3                                                                   | 1060                                                  |
| 16... | 2246 | 7.2                                                                   | 1030                                                  |
| 16... | 2258 | 6.9                                                                   | 912                                                   |
| MAR   |      |                                                                       |                                                       |
| 07... | 1146 | 1.3                                                                   | 871                                                   |
| 07... | 1201 | 1.1                                                                   | 628                                                   |
| 07... | 1206 | 1.2                                                                   | 546                                                   |
| 07... | 1230 | 1.2                                                                   | 434                                                   |
| 07... | 1248 | 1.1                                                                   | 372                                                   |
| 07... | 1252 | 1.1                                                                   | 339                                                   |
| 07... | 1255 | 1.3                                                                   | 322                                                   |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

|       |       |                                                 |                                              | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)    |                                              | SEDI-MENT, SUS-PENDED (MG/L) (80154)         |                                               |                                   |                                                |                                      |  |
|-------|-------|-------------------------------------------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------------------------|-----------------------------------|------------------------------------------------|--------------------------------------|--|
| DATE  | TIME  |                                                 |                                              |                                                    |                                              |                                              |                                               |                                   |                                                |                                      |  |
| MAR   |       |                                                 |                                              |                                                    |                                              |                                              |                                               |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1259                                               | 1.3                                          |                                              | 316                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1302                                               | 1.3                                          |                                              | 312                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1341                                               | 1.3                                          |                                              | 319                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1344                                               | 1.3                                          |                                              | 318                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1350                                               | 1.3                                          |                                              | 311                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1356                                               | 1.1                                          |                                              | 306                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1406                                               | 1.3                                          |                                              | 295                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1443                                               | 1.8                                          |                                              | 360                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1525                                               | 1.9                                          |                                              | 391                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1603                                               | 2.2                                          |                                              | 378                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1639                                               | 2.4                                          |                                              | 362                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1713                                               | 2.5                                          |                                              | 380                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1745                                               | 2.6                                          |                                              | 381                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1812                                               | 3.5                                          |                                              | 403                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1834                                               | 4.4                                          |                                              | 417                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1852                                               | 5.2                                          |                                              | 513                                           |                                   |                                                |                                      |  |
|       | 07... |                                                 |                                              | 1908                                               | 5.6                                          |                                              | 564                                           |                                   |                                                |                                      |  |
| DATE  | TIME  | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L) (00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613) | PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L) (00671) | PHOS-PHORUS, TOTAL (MG/L) (00665) | FLUO-METURON, REC IMMUNO. UNADJ (UG/L) (99773) | SEDI-MENT, SUS-PENDED (MG/L) (80154) |  |
| APR   |       |                                                 |                                              |                                                    |                                              |                                              |                                               |                                   |                                                |                                      |  |
| 28... | 0030  | 1.2                                             | 1.20                                         | 2.9                                                | 2.60                                         | .042                                         | .170                                          | 1.50                              | .16                                            | 2190                                 |  |
| 28... | 0222  | 1.1                                             | .820                                         | 3.4                                                | 3.30                                         | .120                                         | .170                                          | 1.60                              | .12                                            | 1580                                 |  |
| 28... | 0239  | 4.6                                             | .680                                         | 2.7                                                | 2.30                                         | .093                                         | .140                                          | 1.30                              | .06                                            | 1540                                 |  |
| 28... | 0251  | 7.8                                             | .720                                         | 1.6                                                | 1.80                                         | .074                                         | .130                                          | 1.30                              | .09                                            | 1400                                 |  |
| 28... | 0300  | 9.6                                             | .540                                         | 3.2                                                | .770                                         | .065                                         | .140                                          | 1.20                              | .08                                            | 1350                                 |  |
| 28... | 0308  | 11                                              | .400                                         | 2.2                                                | 1.50                                         | .062                                         | .140                                          | 1.20                              | <.05                                           | 1160                                 |  |
| 28... | 0315  | 12                                              | .400                                         | 1.7                                                | 1.50                                         | .059                                         | .140                                          | 1.20                              | .05                                            | 1020                                 |  |
| 28... | 0322  | 13                                              | .370                                         | 2.3                                                | 1.50                                         | .058                                         | .140                                          | .980                              | <.05                                           | 925                                  |  |
| 28... | 0328  | 13                                              | .250                                         | 1.3                                                | 1.50                                         | .060                                         | .140                                          | .920                              | <.05                                           | 829                                  |  |
| 28... | 0334  | 14                                              | .240                                         | 2.1                                                | 1.60                                         | .057                                         | .140                                          | .980                              | <.05                                           | 729                                  |  |
| 28... | 0340  | 14                                              | .400                                         | 2.9                                                | 1.80                                         | .048                                         | .140                                          | 1.10                              | <.05                                           | 990                                  |  |
| 28... | 0346  | 14                                              | .290                                         | 2.4                                                | 1.30                                         | .043                                         | .140                                          | .960                              | <.05                                           | 950                                  |  |
| 28... | 0352  | 13                                              | .120                                         | 1.9                                                | 1.30                                         | .050                                         | .150                                          | .780                              | <.05                                           | 793                                  |  |
| 28... | 0359  | 13                                              | .120                                         | 1.2                                                | 1.40                                         | .048                                         | .160                                          | .790                              | <.05                                           | 588                                  |  |
| 28... | 0405  | 13                                              | .110                                         | 1.8                                                | 1.40                                         | .047                                         | .170                                          | .690                              | <.05                                           | 513                                  |  |
| 28... | 0411  | 13                                              | .100                                         | 2.0                                                | 1.30                                         | .046                                         | .170                                          | .670                              | <.05                                           | 480                                  |  |
| 28... | 0418  | 12                                              | .081                                         | 1.7                                                | 1.40                                         | .048                                         | .190                                          | .660                              | <.05                                           | 414                                  |  |
| 28... | 0425  | 12                                              | .075                                         | 1.7                                                | 1.40                                         | .048                                         | .180                                          | .620                              | <.05                                           | 372                                  |  |
| 28... | 0432  | 11                                              | .110                                         | 1.9                                                | 1.30                                         | .048                                         | .190                                          | .600                              | <.05                                           | 342                                  |  |
| 28... | 0440  | 11                                              | .110                                         | 1.9                                                | 1.30                                         | .047                                         | .210                                          | .610                              | <.05                                           | 306                                  |  |
| 28... | 0448  | 10                                              | .055                                         | 1.8                                                | 1.30                                         | .048                                         | .190                                          | .540                              | <.05                                           | 293                                  |  |
| 28... | 0456  | 9.6                                             | .060                                         | 1.9                                                | 1.30                                         | .049                                         | .210                                          | .520                              | <.05                                           | 279                                  |  |
| 28... | 0505  | 8.9                                             | .042                                         | 1.7                                                | 1.30                                         | .046                                         | .200                                          | .480                              | <.05                                           | 242                                  |  |
| 28... | 0515  | 8.2                                             | .093                                         | 1.8                                                | 1.30                                         | .051                                         | .140                                          | .460                              | <.05                                           | 234                                  |  |
| 30... | 0115  | 1.2                                             | .630                                         | 5.8                                                | 3.90                                         | .048                                         | .080                                          | 1.70                              | .06                                            | 2520                                 |  |
| 30... | 0137  | 6.2                                             | .650                                         | 4.6                                                | 2.00                                         | .033                                         | .100                                          | 1.20                              | --                                             | 2310                                 |  |
| 30... | 0148  | 8.2                                             | .350                                         | 3.4                                                | 1.20                                         | .022                                         | .080                                          | .800                              | <.05                                           | 1280                                 |  |
| 30... | 0157  | 9.6                                             | .270                                         | 3.0                                                | .750                                         | .019                                         | .100                                          | .590                              | --                                             | 897                                  |  |
| 30... | 0205  | 10                                              | .180                                         | 2.4                                                | .610                                         | .017                                         | .110                                          | .640                              | <.05                                           | 652                                  |  |
| 30... | 0213  | 11                                              | .140                                         | 2.5                                                | .510                                         | .014                                         | .100                                          | .580                              | <.05                                           | 486                                  |  |
| 30... | 0221  | 11                                              | .110                                         | 2.4                                                | .460                                         | .014                                         | .100                                          | .540                              | --                                             | 406                                  |  |
| 30... | 0228  | 11                                              | .100                                         | 2.1                                                | .440                                         | .015                                         | .120                                          | .500                              | <.05                                           | 349                                  |  |
| 30... | 0236  | 11                                              | .080                                         | 2.0                                                | .420                                         | .014                                         | .130                                          | .500                              | <.05                                           | 343                                  |  |
| 30... | 0244  | 10                                              | <.010                                        | 2.0                                                | .420                                         | .012                                         | .120                                          | .540                              | --                                             | 310                                  |  |
| 30... | 0252  | 10                                              | .056                                         | 1.8                                                | .450                                         | .014                                         | .140                                          | .320                              | <.05                                           | 303                                  |  |
| 30... | 0300  | 10                                              | .055                                         | 1.9                                                | .430                                         | .014                                         | .120                                          | .460                              | --                                             | 271                                  |  |
| 30... | 0308  | 10                                              | .070                                         | 1.7                                                | .440                                         | .014                                         | .130                                          | .430                              | <.05                                           | 255                                  |  |
| 30... | 0316  | 10                                              | .066                                         | 1.8                                                | .480                                         | .013                                         | .140                                          | .440                              | <.05                                           | 227                                  |  |
| 30... | 0324  | 10                                              | .076                                         | 1.7                                                | .530                                         | .014                                         | .130                                          | .370                              | <.05                                           | 220                                  |  |
| 30... | 0332  | 9.7                                             | .078                                         | 1.5                                                | .560                                         | .014                                         | .130                                          | .390                              | <.05                                           | 231                                  |  |
| 30... | 0341  | 9.3                                             | .057                                         | 1.5                                                | .540                                         | .013                                         | .140                                          | .360                              | <.05                                           | 230                                  |  |
| 30... | 0350  | 9.0                                             | .068                                         | 1.5                                                | .540                                         | .013                                         | .150                                          | .370                              | <.05                                           | 199                                  |  |
| 30... | 0359  | 8.6                                             | .078                                         | 1.4                                                | .560                                         | .014                                         | .150                                          | .330                              | <.05                                           | 185                                  |  |
| 30... | 0409  | 8.0                                             | .098                                         | 1.5                                                | .580                                         | .014                                         | .130                                          | .330                              | <.05                                           | 176                                  |  |
| 30... | 0420  | 7.4                                             | .100                                         | 1.4                                                | .660                                         | .016                                         | .140                                          | .320                              | <.05                                           | 161                                  |  |
| 30... | 0432  | 6.8                                             | .140                                         | 1.3                                                | .830                                         | .017                                         | .120                                          | .300                              | <.05                                           | 145                                  |  |
| 30... | 0445  | 5.8                                             | .230                                         | 1.4                                                | 1.30                                         | .022                                         | .140                                          | .240                              | <.05                                           | 185                                  |  |
| 30... | 0503  | 4.1                                             | .280                                         | 1.3                                                | 1.60                                         | .028                                         | .120                                          | .220                              | <.05                                           | 106                                  |  |
| MAY   |       |                                                 |                                              |                                                    |                                              |                                              |                                               |                                   |                                                |                                      |  |
| 29... | 0412  | 1.1                                             | .320                                         | 3.7                                                | 2.60                                         | .058                                         | .240                                          | 1.30                              | 13.6                                           | 1460                                 |  |
| 29... | 0439  | 3.2                                             | .280                                         | 3.1                                                | 1.90                                         | .042                                         | .220                                          | 1.10                              | 12.8                                           | 1160                                 |  |
| 29... | 0503  | 3.6                                             | .280                                         | 2.4                                                | 1.80                                         | .039                                         | .240                                          | .900                              | 10.7                                           | 832                                  |  |
| 29... | 0528  | 3.6                                             | .320                                         | 3.4                                                | 2.90                                         | .057                                         | .210                                          | 1.10                              | 9.72                                           | --                                   |  |
| 29... | 0544  | 6.9                                             | .330                                         | 3.2                                                | 2.70                                         | .044                                         | .170                                          | 1.20                              | 8.14                                           | 1550                                 |  |
| 29... | 0553  | 9.6                                             | .220                                         | 3.5                                                | 2.20                                         | .039                                         | .160                                          | 1.10                              | 5.10                                           | 1560                                 |  |
| 29... | 0600  | 12                                              | .250                                         | 3.2                                                | 1.90                                         | .035                                         | .160                                          | 1.20                              | 6.83                                           | 1370                                 |  |
| 29... | 0607  | 13                                              | .260                                         | 3.2                                                | 1.60                                         | .034                                         | .180                                          | 1.00                              | 6.06                                           | 1640                                 |  |
| 29... | 0613  | 14                                              | .240                                         | 2.4                                                | 1.50                                         | .031                                         | .170                                          | .960                              | 5.86                                           | 1850                                 |  |
| 29... | 0618  | 14                                              | .230                                         | 3.2                                                | 1.20                                         | .027                                         | .160                                          | 1.30                              | 5.35                                           | 1920                                 |  |
| 29... | 0624  | 14                                              | .230                                         | 2.2                                                | 1.60                                         | .028                                         | .160                                          | .820                              | 4.32                                           | 1780                                 |  |
| 29... | 0630  | 16                                              | .220                                         | 2.6                                                | 1.70                                         | .032                                         | .150                                          | 1.00                              | 3.83                                           | --                                   |  |
| 29... | 0635  | 17                                              | .220                                         | 3.3                                                | 1.60                                         | .028                                         | .180                                          | 1.30                              | 3.37                                           | 1280                                 |  |
| 29... | 0640  | 18                                              | .230                                         | 2.9                                                | 1.50                                         | .027                                         | .180                                          | 1.20                              | 3.27                                           | 1340                                 |  |
| 29... | 0645  | 18                                              | .230                                         | 2.3                                                | 1.60                                         | .023                                         | .180                                          | 1.10                              | 4.36                                           | 1260                                 |  |
| 29... | 0650  | 19                                              | .220                                         | 2.5                                                | 1.50                                         | .022                                         | .180                                          | 1.00                              | 6.34                                           | 1190                                 |  |
| 29... | 0654  | 19                                              | .220                                         | 2.3                                                | 1.40                                         | .022                                         | .180                                          | .910                              | 5.14                                           | 1160                                 |  |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00665) | FLUO-<br>METURON<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99773) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------|
| MAY   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                                             |                                                      |
| 29... | 0658 | 20                                                                    | .200                                                                     | 4.4                                                                            | 1.30                                                                     | .022                                                                     | .160                                                                     | .920                                                           | 3.92                                                                        | 1050                                                 |
| 29... | 0703 | 20                                                                    | .210                                                                     | 2.8                                                                            | 1.30                                                                     | .048                                                                     | .220                                                                     | 1.10                                                           | 3.28                                                                        | 919                                                  |
| 29... | 0707 | 20                                                                    | .200                                                                     | 2.4                                                                            | 1.30                                                                     | .020                                                                     | .150                                                                     | .950                                                           | 4.84                                                                        | 882                                                  |
| 29... | 0712 | 20                                                                    | .210                                                                     | 3.8                                                                            | 1.30                                                                     | .020                                                                     | .150                                                                     | .780                                                           | 6.10                                                                        | 838                                                  |
| 29... | 0716 | 20                                                                    | .210                                                                     | 2.6                                                                            | 1.30                                                                     | .020                                                                     | .140                                                                     | .960                                                           | 5.52                                                                        | 833                                                  |
| 29... | 0721 | 20                                                                    | .210                                                                     | 2.4                                                                            | 1.40                                                                     | .020                                                                     | .150                                                                     | .950                                                           | 5.25                                                                        | 828                                                  |
| 29... | 0725 | 20                                                                    | .210                                                                     | 3.3                                                                            | 1.30                                                                     | .020                                                                     | .160                                                                     | .880                                                           | 5.09                                                                        | 830                                                  |
| JUN   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                                             |                                                      |
| 05... | 1251 | 1.1                                                                   | .250                                                                     | 15                                                                             | .590                                                                     | .012                                                                     | .210                                                                     | 6.00                                                           | 8.37                                                                        | 7610                                                 |
| 05... | 1310 | 6.0                                                                   | .260                                                                     | 6.5                                                                            | 1.00                                                                     | .022                                                                     | .230                                                                     | 1.40                                                           | 5.81                                                                        | 6490                                                 |
| 05... | 1322 | 7.3                                                                   | .280                                                                     | 4.7                                                                            | 1.50                                                                     | .025                                                                     | .210                                                                     | 1.50                                                           | 10.4                                                                        | 2850                                                 |
| 05... | 1333 | 7.7                                                                   | .300                                                                     | 5.2                                                                            | 1.50                                                                     | .024                                                                     | .210                                                                     | .750                                                           | 7.64                                                                        | 2450                                                 |
| 05... | 1344 | 7.7                                                                   | .270                                                                     | 3.9                                                                            | 1.50                                                                     | .027                                                                     | .230                                                                     | .970                                                           | 6.71                                                                        | 1790                                                 |
| 05... | 1355 | 7.3                                                                   | .240                                                                     | 3.2                                                                            | 1.60                                                                     | .022                                                                     | .210                                                                     | 1.20                                                           | 4.73                                                                        | 1140                                                 |
| 05... | 1407 | 6.8                                                                   | .220                                                                     | 2.6                                                                            | 1.70                                                                     | .029                                                                     | .230                                                                     | .940                                                           | 4.01                                                                        | 727                                                  |
| 05... | 1420 | 5.9                                                                   | .210                                                                     | 2.6                                                                            | 1.60                                                                     | .027                                                                     | .220                                                                     | .840                                                           | 3.32                                                                        | 528                                                  |
| 05... | 1438 | 4.0                                                                   | .230                                                                     | 2.2                                                                            | 2.10                                                                     | .046                                                                     | .230                                                                     | .410                                                           | 3.07                                                                        | 374                                                  |
| JUL   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                                             |                                                      |
| 12... | 0702 | 1.3                                                                   | .070                                                                     | 2.0                                                                            | 2.20                                                                     | .050                                                                     | .210                                                                     | .230                                                           | .90                                                                         | 1420                                                 |
| 12... | 0731 | 3.0                                                                   | .140                                                                     | 1.7                                                                            | 2.60                                                                     | .062                                                                     | .210                                                                     | .650                                                           | 1.68                                                                        | 712                                                  |
| 12... | 0755 | 3.8                                                                   | .058                                                                     | 1.4                                                                            | 2.00                                                                     | .058                                                                     | .240                                                                     | .480                                                           | .57                                                                         | 274                                                  |
| 12... | 0819 | 3.2                                                                   | .032                                                                     | .60                                                                            | 1.30                                                                     | .042                                                                     | .190                                                                     | .320                                                           | .26                                                                         | 151                                                  |
| 13... | 0306 | 1.1                                                                   | .130                                                                     | 3.6                                                                            | .920                                                                     | .020                                                                     | .150                                                                     | .460                                                           | 1.01                                                                        | 1860                                                 |
| 13... | 0321 | 3.7                                                                   | .090                                                                     | 2.3                                                                            | 1.30                                                                     | .027                                                                     | .240                                                                     | .560                                                           | .90                                                                         | 1400                                                 |
| 13... | 0339 | 5.4                                                                   | .150                                                                     | 2.2                                                                            | 1.20                                                                     | .025                                                                     | .190                                                                     | .400                                                           | .73                                                                         | 685                                                  |
| 13... | 0353 | 6.0                                                                   | .120                                                                     | 1.5                                                                            | 1.10                                                                     | .026                                                                     | .210                                                                     | .410                                                           | .82                                                                         | 509                                                  |
| 13... | 0408 | 6.0                                                                   | .072                                                                     | 1.1                                                                            | .970                                                                     | .026                                                                     | .200                                                                     | .410                                                           | .37                                                                         | 319                                                  |
| 13... | 0422 | 5.7                                                                   | .030                                                                     | 1.1                                                                            | .920                                                                     | .026                                                                     | .190                                                                     | .390                                                           | .32                                                                         | 187                                                  |
| 13... | 0438 | 5.4                                                                   | .036                                                                     | 1.0                                                                            | 1.00                                                                     | .028                                                                     | .210                                                                     | .380                                                           | .37                                                                         | 158                                                  |
| 13... | 0454 | 5.4                                                                   | .083                                                                     | 1.0                                                                            | 1.20                                                                     | .030                                                                     | .220                                                                     | .380                                                           | .61                                                                         | 160                                                  |
| 13... | 0510 | 5.4                                                                   | .082                                                                     | 1.2                                                                            | 1.40                                                                     | .032                                                                     | .220                                                                     | .270                                                           | .62                                                                         | 187                                                  |
| 13... | 0526 | 5.4                                                                   | .076                                                                     | 1.1                                                                            | 1.40                                                                     | .036                                                                     | .210                                                                     | .410                                                           | .51                                                                         | 202                                                  |
| 13... | 0542 | 5.2                                                                   | .100                                                                     | 1.0                                                                            | 1.40                                                                     | .036                                                                     | .220                                                                     | .360                                                           | .58                                                                         | 192                                                  |
| 13... | 0600 | 4.8                                                                   | .093                                                                     | .86                                                                            | 1.50                                                                     | .035                                                                     | .240                                                                     | .350                                                           | .59                                                                         | 169                                                  |
| 13... | 0618 | 4.4                                                                   | .130                                                                     | 1.0                                                                            | 1.70                                                                     | .034                                                                     | .210                                                                     | .330                                                           | .87                                                                         | 139                                                  |
| 13... | 0639 | 4.0                                                                   | .170                                                                     | .90                                                                            | 1.90                                                                     | .036                                                                     | .260                                                                     | .320                                                           | 2.09                                                                        | 129                                                  |
| 13... | 0702 | 3.6                                                                   | .200                                                                     | .85                                                                            | 2.10                                                                     | .038                                                                     | .210                                                                     | .330                                                           | 2.40                                                                        | 111                                                  |
| 13... | 0728 | 3.0                                                                   | .220                                                                     | .76                                                                            | 2.20                                                                     | .038                                                                     | .250                                                                     | .320                                                           | 3.39                                                                        | 109                                                  |
| 13... | 0804 | 1.7                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                          | 90                                                   |
| 21... | 1811 | .78                                                                   | .014                                                                     | 3.9                                                                            | .360                                                                     | <.010                                                                    | .160                                                                     | .720                                                           | 1.09                                                                        | 2000                                                 |
| 21... | 1832 | 7.3                                                                   | .025                                                                     | 2.5                                                                            | .660                                                                     | <.010                                                                    | .350                                                                     | 1.00                                                           | .35                                                                         | 1900                                                 |
| 21... | 1841 | 8.9                                                                   | .034                                                                     | 2.3                                                                            | .990                                                                     | .011                                                                     | .370                                                                     | .700                                                           | .17                                                                         | 791                                                  |
| 21... | 1850 | 10                                                                    | .016                                                                     | 2.3                                                                            | .680                                                                     | <.010                                                                    | .310                                                                     | .510                                                           | .41                                                                         | 593                                                  |
| 21... | 1859 | 10                                                                    | .037                                                                     | 2.3                                                                            | .930                                                                     | .011                                                                     | .330                                                                     | .410                                                           | .33                                                                         | 654                                                  |
| 21... | 1905 | 10                                                                    | .017                                                                     | 2.3                                                                            | .770                                                                     | <.010                                                                    | .310                                                                     | .570                                                           | .19                                                                         | 572                                                  |
| 21... | 1912 | 11                                                                    | .020                                                                     | 2.0                                                                            | .810                                                                     | <.010                                                                    | .310                                                                     | .760                                                           | .16                                                                         | 480                                                  |
| 21... | 1920 | 11                                                                    | .023                                                                     | 1.8                                                                            | .930                                                                     | .010                                                                     | .330                                                                     | .780                                                           | .10                                                                         | 381                                                  |
| 21... | 1927 | 10                                                                    | .024                                                                     | 1.7                                                                            | .900                                                                     | <.010                                                                    | .340                                                                     | .540                                                           | .08                                                                         | 319                                                  |
| 21... | 1936 | 9.7                                                                   | .030                                                                     | 1.6                                                                            | 1.10                                                                     | .012                                                                     | .370                                                                     | .720                                                           | .05                                                                         | 258                                                  |
| 21... | 1944 | 9.2                                                                   | .018                                                                     | 1.5                                                                            | 1.10                                                                     | <.010                                                                    | .360                                                                     | .660                                                           | .06                                                                         | 220                                                  |
| 21... | 1954 | 8.6                                                                   | .026                                                                     | 1.6                                                                            | 1.20                                                                     | <.010                                                                    | .360                                                                     | .650                                                           | .07                                                                         | 195                                                  |
| 21... | 2004 | 7.9                                                                   | .023                                                                     | 1.3                                                                            | 1.00                                                                     | .012                                                                     | .360                                                                     | .550                                                           | .05                                                                         | 175                                                  |
| 21... | 2015 | 7.3                                                                   | .028                                                                     | 1.3                                                                            | .900                                                                     | .010                                                                     | .360                                                                     | .520                                                           | .07                                                                         | 135                                                  |
| 21... | 2027 | 6.5                                                                   | .043                                                                     | 1.2                                                                            | .790                                                                     | .022                                                                     | .320                                                                     | .430                                                           | .08                                                                         | 100                                                  |
| 21... | 2042 | 5.3                                                                   | .047                                                                     | 1.2                                                                            | .840                                                                     | .027                                                                     | .360                                                                     | .480                                                           | .12                                                                         | 76                                                   |
| 21... | 2106 | 1.9                                                                   | .067                                                                     | 1.7                                                                            | 1.90                                                                     | .130                                                                     | .480                                                                     | .610                                                           | .10                                                                         | 56                                                   |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

## DISCRETE SAMPLE SUPPLEMENTAL DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

|       |       | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342)   | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)  | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) |                                                                                |
|-------|-------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| APR   |       |                                                                             |                                                                      |                                                                  |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 28... | 0222  | <.050                                                                       | <.0500                                                               | <.050                                                            | <.050                                                                         | .150                                                          | <.0500                                                          | <.050                                                                  | .0600                                                                    | .370                                                                       | <.050                                                                     | .340                                                                         |                                                                                |
| 28... | 0315  | <.050                                                                       | <.0500                                                               | <.050                                                            | <.050                                                                         | .100                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | .130                                                                       | <.050                                                                     | <.050                                                                        |                                                                                |
| 30... | 0236  | <.050                                                                       | <.0500                                                               | <.050                                                            | <.050                                                                         | .050                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                        |                                                                                |
| MAY   |       |                                                                             |                                                                      |                                                                  |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 29... | 0607  | <.050                                                                       | <.0500                                                               | <.050                                                            | .060                                                                          | .060                                                          | <.0500                                                          | <.050                                                                  | .0800                                                                    | <.0500                                                                     | <.050                                                                     | 2.70                                                                         |                                                                                |
| 29... | 0650  | <.050                                                                       | <.0500                                                               | <.050                                                            | .110                                                                          | .200                                                          | <.0500                                                          | <.050                                                                  | .0600                                                                    | .0800                                                                      | <.050                                                                     | 1.89                                                                         |                                                                                |
| 29... | 0725  | <.050                                                                       | <.0500                                                               | <.050                                                            | .060                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 2.15                                                                         |                                                                                |
| JUN   |       |                                                                             |                                                                      |                                                                  |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 05... | 1322  | <.050                                                                       | <.0500                                                               | <.050                                                            | .140                                                                          | .060                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 1.63                                                                         |                                                                                |
| 05... | 1355  | <.050                                                                       | <.0500                                                               | <.050                                                            | .100                                                                          | .060                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 4.95                                                                         |                                                                                |
| JUL   |       |                                                                             |                                                                      |                                                                  |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 12... | 0731  | <.050                                                                       | <.0500                                                               | <.050                                                            | <.050                                                                         | <.050                                                         | 13.3                                                            | 5.54                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 2.17                                                                         |                                                                                |
| 13... | 0618  | <.050                                                                       | <.0500                                                               | <.050                                                            | <.050                                                                         | <.050                                                         | 3.66                                                            | 2.37                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .610                                                                         |                                                                                |
| 13... | 0728  | <.050                                                                       | <.0500                                                               | <.050                                                            | <.050                                                                         | <.050                                                         | 7.55                                                            | 6.29                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 1.44                                                                         |                                                                                |
| 21... | 1811  | <.050                                                                       | <.0500                                                               | <.050                                                            | <.050                                                                         | .050                                                          | 11.2                                                            | 4.40                                                                   | <.0500                                                                   | .380                                                                       | <.050                                                                     | .870                                                                         |                                                                                |
| 21... | 1905  | <.050                                                                       | <.0500                                                               | <.050                                                            | <.050                                                                         | <.050                                                         | 1.22                                                            | 1.49                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .270                                                                         |                                                                                |
| 21... | 2027  | <.050                                                                       | <.0500                                                               | <.050                                                            | <.050                                                                         | <.050                                                         | .790                                                            | 1.22                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .140                                                                         |                                                                                |
|       |       | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>REC<br>(UG/L)<br>(39415) | METRI-<br>BUCIN<br>WATER<br>DISSOLV<br>REC<br>(UG/L)<br>(82630)               | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)   | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)         | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)         | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) |
| APR   |       |                                                                             |                                                                      |                                                                  |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 28... | .550  | .090                                                                        | .440                                                                 | <.050                                                            | <.050                                                                         | .080                                                          | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| 28... | <.050 | <.050                                                                       | <.050                                                                | <.050                                                            | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| 30... | <.050 | <.050                                                                       | <.050                                                                | <.050                                                            | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| MAY   |       |                                                                             |                                                                      |                                                                  |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 29... | <.050 | 5.17                                                                        | <.050                                                                | <.050                                                            | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| 29... | .190  | 4.57                                                                        | .150                                                                 | <.050                                                            | <.050                                                                         | .050                                                          | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| 29... | <.050 | 6.26                                                                        | <.050                                                                | <.050                                                            | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| JUN   |       |                                                                             |                                                                      |                                                                  |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 05... | <.050 | 8.39                                                                        | <.050                                                                | <.050                                                            | .400                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| 05... | <.050 | 6.17                                                                        | <.050                                                                | <.050                                                            | .350                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| JUL   |       |                                                                             |                                                                      |                                                                  |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 12... | <.050 | 2.25                                                                        | .100                                                                 | <.050                                                            | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | .180                                                                       | <.05                                                                      | <.050                                                                        |                                                                                |
| 13... | .160  | .680                                                                        | <.050                                                                | <.050                                                            | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | .0500                                                                      | <.05                                                                      | <.050                                                                        |                                                                                |
| 13... | <.050 | 1.58                                                                        | <.050                                                                | <.050                                                            | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | .100                                                                       | <.05                                                                      | <.050                                                                        |                                                                                |
| 21... | <.050 | 1.23                                                                        | <.050                                                                | <.050                                                            | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | .160                                                                       | <.05                                                                      | <.050                                                                        |                                                                                |
| 21... | <.050 | .160                                                                        | <.050                                                                | <.050                                                            | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | .0500                                                                      | <.05                                                                      | <.050                                                                        |                                                                                |
| 21... | <.050 | .110                                                                        | <.050                                                                | <.050                                                            | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

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## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

GRAB SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

| DATE                                                             | TIME                                        | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)         | SEDI-MENT, SUS-PENDED (MG/L) (80154)              |                                                         |                                                    |                                                     |                                                        |                                                       |                                                          |                                                         |                                                  |
|------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------|
| JUL 16...                                                        | 1321                                        | 3.6                                                     | 48                                                |                                                         |                                                    |                                                     |                                                        |                                                       |                                                          |                                                         |                                                  |
| COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 |                                             |                                                         |                                                   |                                                         |                                                    |                                                     |                                                        |                                                       |                                                          |                                                         |                                                  |
| DATE                                                             | TIME                                        | ENDING TIME                                             | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)  | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)   | PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)     | PHOS-PHORUS, TOTAL (MG/L AS P) (00665)                | CARBON, ORGANIC TOTAL (MG/L AS C) (00680)                | 3,4-DI-CHLORO-ANILINE WATER FLTRD REC (UG/L) (50309)    | ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)      |
| NOV 14-14                                                        | 0420                                        | 1739                                                    | .034                                              | 1.3                                                     | 2.80                                               | .039                                                | .680                                                   | 1.00                                                  | 3.6                                                      | <.050                                                   | <.0500                                           |
| DEC 07-07                                                        | 0727                                        | 1201                                                    | .032                                              | 2.4                                                     | .150                                               | <.010                                               | .480                                                   | .650                                                  | 11                                                       | <.050                                                   | <.0500                                           |
| DEC 11-12                                                        | 1755                                        | 0517                                                    | <.010                                             | .89                                                     | .090                                               | <.010                                               | .240                                                   | .540                                                  | 3.6                                                      | <.050                                                   | <.0500                                           |
| DEC 21-22                                                        | 2314                                        | 0634                                                    | --                                                | --                                                      | --                                                 | --                                                  | --                                                     | --                                                    | --                                                       | --                                                      | --                                               |
| JAN 08-08                                                        | 0754                                        | 1905                                                    | .039                                              | 2.0                                                     | .090                                               | <.010                                               | .240                                                   | 1.00                                                  | --                                                       | <.050                                                   | --                                               |
| JAN 08-09                                                        | 1944                                        | 0403                                                    | .042                                              | 2.0                                                     | .180                                               | <.010                                               | .250                                                   | .980                                                  | --                                                       | <.050                                                   | --                                               |
| JAN 22-22                                                        | 1007                                        | 2121                                                    | --                                                | --                                                      | --                                                 | --                                                  | --                                                     | --                                                    | --                                                       | --                                                      | --                                               |
| JAN 29-29                                                        | 0706                                        | 1243                                                    | --                                                | --                                                      | --                                                 | --                                                  | --                                                     | --                                                    | --                                                       | --                                                      | --                                               |
| MAR 12-14                                                        | 2306                                        | 0036                                                    | .030                                              | 1.2                                                     | .420                                               | <.010                                               | .080                                                   | .400                                                  | 6.6                                                      | <.050                                                   | <.0500                                           |
| APR 03-04                                                        | 2128                                        | 0410                                                    | <.010                                             | 1.5                                                     | <.020                                              | <.010                                               | .470                                                   | .860                                                  | 22                                                       | <.050                                                   | <.0500                                           |
| APR 06-06                                                        | 0129                                        | 0252                                                    | --                                                | --                                                      | --                                                 | --                                                  | --                                                     | --                                                    | --                                                       | --                                                      | --                                               |
| APR 14-15                                                        | 2011                                        | 0358                                                    | .020                                              | 3.1                                                     | .230                                               | <.010                                               | .560                                                   | 1.10                                                  | 19                                                       | <.050                                                   | <.0500                                           |
| MAY 05-05                                                        | 2002                                        | 2336                                                    | 2.30                                              | 6.8                                                     | 4.20                                               | .080                                                | .380                                                   | .920                                                  | 21                                                       | <.050                                                   | <.0500                                           |
| MAY 31-31                                                        | 0816                                        | 1112                                                    | .400                                              | 2.8                                                     | 6.20                                               | .100                                                | .340                                                   | .950                                                  | 12                                                       | <.050                                                   | <.0500                                           |
| JUL 15-16                                                        | 2225                                        | 1309                                                    | .400                                              | .76                                                     | 1.10                                               | .020                                                | .090                                                   | .180                                                  | 3.1                                                      | <.050                                                   | <.0500                                           |
| JUL 16-16                                                        | 1320                                        | 1321                                                    | --                                                | --                                                      | --                                                 | --                                                  | --                                                     | --                                                    | --                                                       | --                                                      | --                                               |
| AUG 07-07                                                        | 0159                                        | 2125                                                    | .070                                              | .37                                                     | .670                                               | .030                                                | .070                                                   | .160                                                  | 2.6                                                      | <.050                                                   | <.0500                                           |
| DATE                                                             | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342) | ANILINE 3-(TRI-FLURO-METHYL), FILT, REC, (UG/L) (50307) | ATRA-ZINE, WATER, DISS, REC, (UG/L) (39632)       | CYANA-ZINE, WATER, DISS, REC, (UG/L) (04041)            | CYANA-ZINE-AMIDE, WATER, FLTRD REC, (UG/L) (61709) | DEETHYL ATRA-ZINE, WATER, DISS, REC, (UG/L) (04040) | DEISO-PROPYL ATRAZIN, WATER, DISS, REC, (UG/L) (04038) | DEISO-PROPYL METRYN, WATER, FLTRD REC, (UG/L) (50378) | DEMETH-YLFLURO-METURON, WATER, FLTRD REC, (UG/L) (50379) | DEMETH-YLNORF-LURAZON, WATER, FLTRD REC, (UG/L) (50380) | FLURO-MET-URON, WATER, FLTRD REC, (UG/L) (61710) |
| NOV 14-14                                                        | <.050                                       | <.050                                                   | <.050                                             | <.0500                                                  | .260                                               | <.0500                                              | .130                                                   | <.050                                                 | 1.01                                                     | .410                                                    | .310                                             |
| DEC 07-07                                                        | <.050                                       | <.050                                                   | <.050                                             | <.0500                                                  | <.050                                              | <.0500                                              | .110                                                   | <.050                                                 | <.050                                                    | <.050                                                   | <.050                                            |
| DEC 11-12                                                        | <.050                                       | <.050                                                   | <.050                                             | <.0500                                                  | <.050                                              | <.0500                                              | <.0500                                                 | <.050                                                 | <.050                                                    | <.050                                                   | <.050                                            |
| DEC 21-22                                                        | --                                          | --                                                      | --                                                | --                                                      | --                                                 | --                                                  | --                                                     | --                                                    | --                                                       | --                                                      | --                                               |
| JAN 08-08                                                        | <.050                                       | <.050                                                   | <.050                                             | <.0500                                                  | <.050                                              | <.0500                                              | .160                                                   | <.050                                                 | .430                                                     | .560                                                    | .080                                             |
| JAN 08-09                                                        | <.050                                       | <.050                                                   | <.050                                             | <.0500                                                  | <.050                                              | <.0500                                              | <.0500                                                 | <.050                                                 | <.050                                                    | <.050                                                   | <.050                                            |
| JAN 22-22                                                        | --                                          | --                                                      | --                                                | --                                                      | --                                                 | --                                                  | --                                                     | --                                                    | --                                                       | --                                                      | --                                               |
| JAN 29-29                                                        | --                                          | --                                                      | --                                                | --                                                      | --                                                 | --                                                  | --                                                     | --                                                    | --                                                       | --                                                      | --                                               |
| MAR 12-14                                                        | <.050                                       | <.050                                                   | <.050                                             | <.0500                                                  | <.050                                              | <.0500                                              | <.0500                                                 | <.050                                                 | <.050                                                    | <.050                                                   | <.050                                            |
| APR 03-04                                                        | <.050                                       | <.050                                                   | <.050                                             | <.0500                                                  | <.050                                              | <.0500                                              | <.0500                                                 | <.050                                                 | <.050                                                    | <.050                                                   | <.050                                            |
| APR 06-06                                                        | --                                          | --                                                      | --                                                | --                                                      | --                                                 | --                                                  | --                                                     | --                                                    | --                                                       | --                                                      | --                                               |
| APR 14-15                                                        | <.050                                       | <.050                                                   | .150                                              | <.0500                                                  | <.050                                              | <.0500                                              | <.0500                                                 | <.050                                                 | <.050                                                    | <.050                                                   | <.050                                            |
| MAY 05-05                                                        | <.050                                       | <.050                                                   | .180                                              | <.0500                                                  | <.050                                              | <.0500                                              | <.0500                                                 | <.050                                                 | .120                                                     | <.050                                                   | .130                                             |
| MAY 31-31                                                        | <.050                                       | .200                                                    | .050                                              | .150                                                    | <.050                                              | <.0500                                              | <.0500                                                 | <.050                                                 | 7.03                                                     | .080                                                    | 29.1                                             |
| JUL 15-16                                                        | <.050                                       | <.050                                                   | <.050                                             | 4.94                                                    | 1.90                                               | <.0500                                              | <.0500                                                 | <.050                                                 | .370                                                     | <.050                                                   | 1.77                                             |
| JUL 16-16                                                        | --                                          | --                                                      | --                                                | --                                                      | --                                                 | --                                                  | --                                                     | --                                                    | --                                                       | --                                                      | --                                               |
| AUG 07-07                                                        | <.050                                       | <.050                                                   | <.050                                             | .360                                                    | 1.29                                               | <.0500                                              | <.0500                                                 | <.050                                                 | .570                                                     | <.050                                                   | 1.26                                             |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|--------------|-----------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------|
| NOV<br>14-14 | <.050                                                     | <.050                                                              | <.050                                                       | .220                                                            | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 163                                                  |
| DEC<br>07-07 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 515                                                  |
| DEC<br>11-12 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 242                                                  |
| DEC<br>21-22 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 402                                                  |
| JAN<br>08-08 | <.050                                                     | <.050                                                              | <.050                                                       | .140                                                            | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 598                                                  |
| JAN<br>08-09 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 576                                                  |
| JAN<br>22-22 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 629                                                  |
| JAN<br>29-29 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 410                                                  |
| MAR<br>12-14 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 224                                                  |
| APR<br>03-04 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 304                                                  |
| APR<br>06-06 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 485                                                  |
| APR<br>14-15 | .090                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 303                                                  |
| MAY<br>05-05 | .090                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 432                                                  |
| MAY<br>31-31 | <.050                                                     | <.050                                                              | .130                                                        | <.050                                                           | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 561                                                  |
| JUL<br>15-16 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 70                                                   |
| JUL<br>16-16 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 64                                                   |
| AUG<br>07-07 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.05000                                                        | <.050                                                       | <.050                                                       | <.05000                                                       | <.05                                                                 | <.050                                                                           | 98                                                   |

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

|       |      | DIS-CHARGE, INST. CUBIC FEET PER SECOND | NITRO-GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO-GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) | PHOS- PHORUS, TOTAL (MG/L AS P) | ATRA- ZINE WAT FLT REC | FLUO- METURON WAT FLT REC | METRI- BUZIN WAT FLT REC | SEDI- MENT, SUS- PENDED (MG/L) |
|-------|------|-----------------------------------------|--------------------------------------------|--------------------------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------|------------------------|---------------------------|--------------------------|--------------------------------|
| DATE  | TIME | (00061)                                 | (00608)                                    | (00625)                                          | (00631)                                     | (00613)                                     | (00671)                                      | (00665)                         | IMMUNO. UNADJ (UG/L)   | IMMUNO. UNADJ (UG/L)      | IMMUNO. UNADJ (UG/L)     | (80154)                        |
| NOV   |      |                                         |                                            |                                                  |                                             |                                             |                                              |                                 |                        |                           |                          |                                |
| 14... | 0420 | .68                                     | .200                                       | 1.8                                              | 4.80                                        | .060                                        | 1.00                                         | 1.40                            | --                     | <.05                      | --                       | 213                            |
| 14... | 0429 | .68                                     | .180                                       | 1.8                                              | 5.10                                        | .069                                        | 1.00                                         | 1.40                            | --                     | .06                       | --                       | 177                            |
| 14... | 0955 | .68                                     | .130                                       | 1.3                                              | 3.90                                        | .080                                        | .880                                         | 1.10                            | --                     | .23                       | --                       | 76                             |
| 14... | 1041 | 1.2                                     | .100                                       | 1.3                                              | 3.30                                        | .058                                        | .720                                         | 1.00                            | --                     | .32                       | --                       | 155                            |
| 14... | 1134 | 1.5                                     | .059                                       | 1.3                                              | 2.90                                        | .041                                        | .720                                         | .960                            | --                     | .37                       | --                       | 151                            |
| 14... | 1214 | 2.1                                     | .066                                       | 1.2                                              | 3.00                                        | .039                                        | .730                                         | .950                            | --                     | .44                       | --                       | 130                            |
| 14... | 1252 | 2.2                                     | .064                                       | 1.4                                              | 2.90                                        | .041                                        | .710                                         | .970                            | --                     | .50                       | --                       | 111                            |
| 14... | 1323 | 3.3                                     | .038                                       | 1.1                                              | 2.80                                        | .038                                        | .680                                         | .920                            | --                     | .40                       | --                       | 117                            |
| 14... | 1345 | 4.2                                     | .052                                       | 1.1                                              | 2.70                                        | .036                                        | .640                                         | .940                            | --                     | .38                       | --                       | 154                            |
| 14... | 1404 | 4.8                                     | .072                                       | 1.2                                              | 2.60                                        | .036                                        | .630                                         | .950                            | --                     | .37                       | --                       | 165                            |
| 14... | 1421 | 5.5                                     | .052                                       | 1.4                                              | 2.50                                        | .030                                        | .610                                         | .920                            | --                     | .31                       | --                       | 187                            |
| 14... | 1436 | 5.9                                     | .046                                       | 1.4                                              | 2.80                                        | .030                                        | .620                                         | .850                            | --                     | .19                       | --                       | 197                            |
| 14... | 1450 | 6.0                                     | .054                                       | 1.4                                              | 2.50                                        | .032                                        | .620                                         | .930                            | --                     | .23                       | --                       | 199                            |
| 14... | 1504 | 6.0                                     | .054                                       | 1.5                                              | 2.40                                        | .030                                        | .630                                         | 1.10                            | --                     | .14                       | --                       | 209                            |
| 14... | 1519 | 5.8                                     | .057                                       | 1.5                                              | 2.20                                        | .030                                        | .650                                         | .950                            | --                     | .17                       | --                       | 222                            |
| 14... | 1534 | 5.4                                     | .062                                       | 1.4                                              | 2.20                                        | .028                                        | .650                                         | 1.10                            | --                     | .25                       | --                       | 211                            |
| 14... | 1552 | 4.7                                     | .054                                       | 1.4                                              | 2.70                                        | .027                                        | .700                                         | 1.00                            | --                     | .18                       | --                       | 221                            |
| 14... | 1612 | 3.7                                     | .056                                       | 1.3                                              | 2.60                                        | .034                                        | .710                                         | 1.10                            | --                     | .36                       | --                       | 166                            |
| 14... | 1642 | 2.1                                     | .060                                       | 1.4                                              | 3.20                                        | .038                                        | .760                                         | 1.10                            | --                     | .31                       | --                       | 131                            |
| 14... | 1738 | 1.0                                     | .063                                       | 1.2                                              | 3.50                                        | .048                                        | .820                                         | 1.10                            | --                     | .41                       | --                       | 95                             |
| 14... | 1825 | .68                                     | .060                                       | 1.2                                              | 4.00                                        | .052                                        | .840                                         | 1.00                            | --                     | .54                       | --                       | 105                            |
| 20... | 0507 | .68                                     | .100                                       | 3.5                                              | 1.10                                        | .038                                        | .560                                         | 1.80                            | --                     | <.05                      | --                       | 1080                           |
| 20... | 0556 | 2.8                                     | .100                                       | 2.6                                              | .650                                        | .026                                        | .540                                         | .740                            | --                     | .11                       | --                       | 770                            |
| 20... | 0620 | 4.3                                     | .071                                       | 2.7                                              | .670                                        | .019                                        | .490                                         | 1.10                            | --                     | .25                       | --                       | 696                            |
| 20... | 0639 | 4.7                                     | .066                                       | 2.3                                              | .690                                        | .024                                        | .500                                         | 1.30                            | --                     | <.05                      | --                       | 564                            |
| 20... | 0657 | 4.5                                     | .064                                       | 2.5                                              | .670                                        | .023                                        | .570                                         | .960                            | --                     | .07                       | --                       | 498                            |
| 20... | 0718 | 3.8                                     | .070                                       | 2.5                                              | .690                                        | .021                                        | .560                                         | 1.30                            | --                     | .07                       | --                       | 439                            |
| 20... | 0744 | 2.7                                     | .070                                       | 2.4                                              | .820                                        | .022                                        | .570                                         | .730                            | --                     | .11                       | --                       | 364                            |
| 20... | 0826 | 1.5                                     | .085                                       | 2.1                                              | .980                                        | .032                                        | .660                                         | 1.10                            | --                     | .15                       | --                       | 253                            |
| DEC   |      |                                         |                                            |                                                  |                                             |                                             |                                              |                                 |                        |                           |                          |                                |
| 07... | 0726 | .68                                     | .050                                       | 1.9                                              | .360                                        | .012                                        | .580                                         | .640                            | --                     | <.05                      | --                       | 304                            |
| 07... | 0802 | 3.5                                     | .024                                       | 2.5                                              | .130                                        | <.010                                       | .460                                         | .820                            | --                     | <.05                      | --                       | 687                            |
| 07... | 0820 | 5.4                                     | .036                                       | 3.0                                              | .120                                        | <.010                                       | .490                                         | .680                            | --                     | .06                       | --                       | 968                            |
| 07... | 0835 | 6.3                                     | .025                                       | 2.9                                              | .130                                        | <.010                                       | .400                                         | .560                            | --                     | .10                       | --                       | 1070                           |
| 07... | 0848 | 6.8                                     | .024                                       | 3.0                                              | .140                                        | <.010                                       | .390                                         | .570                            | --                     | <.05                      | --                       | 948                            |
| 07... | 0900 | 7.0                                     | .028                                       | 2.8                                              | .120                                        | <.010                                       | .410                                         | .550                            | --                     | .09                       | --                       | 738                            |
| 07... | 0912 | 7.0                                     | .030                                       | 2.7                                              | .110                                        | <.010                                       | .420                                         | .680                            | --                     | <.05                      | --                       | 616                            |





## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

|       |      | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | ATRA-<br>ZINE<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99775) | FLUO-<br>METURON<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99773) | METRI-<br>BUZIN<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99774) | SEDI-<br>MENT,<br>SUS-<br>PENDEED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------|
| DATE  | TIME |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                        |
| JAN   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                        |
| 22... | 1536 | 2.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 658                                                    |
| 22... | 1626 | 3.3                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 604                                                    |
| 22... | 1702 | 4.3                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 546                                                    |
| 22... | 1732 | 4.8                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 493                                                    |
| 22... | 1800 | 4.9                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 414                                                    |
| 22... | 1828 | 4.6                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 351                                                    |
| 22... | 1902 | 3.6                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 318                                                    |
| 22... | 1948 | 2.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 285                                                    |
| 22... | 2121 | .84                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 257                                                    |
| 22... | 2142 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 211                                                    |
| 29... | 1132 | 7.3                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 452                                                    |
| 29... | 1325 | 22                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 577                                                    |
| 29... | 1331 | 24                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 702                                                    |
| 29... | 1337 | 25                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 754                                                    |
| 29... | 1344 | 25                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 782                                                    |
| 29... | 1350 | 27                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 787                                                    |
| 29... | 1402 | 27                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1090                                                   |
| FEB   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                        |
| 27... | 2205 | 2.0                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 959                                                    |
| 27... | 2322 | 1.3                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 392                                                    |
| 28... | 0029 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 250                                                    |
| MAR   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                        |
| 02... | 1526 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 215                                                    |
| 02... | 1635 | 3.0                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 246                                                    |
| 02... | 1714 | 3.8                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 470                                                    |
| 02... | 1752 | 3.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 271                                                    |
| 02... | 1841 | 2.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 399                                                    |
| 02... | 2013 | .78                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 571                                                    |
| 02... | 2222 | 1.5                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 879                                                    |
| 03... | 0006 | .84                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1070                                                   |
| 03... | 0038 | .62                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1990                                                   |
| 12... | 2305 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 210                                                    |
| 13... | 0016 | 1.8                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 249                                                    |
| 13... | 0123 | 1.8                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 180                                                    |
| 13... | 0257 | .95                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 101                                                    |
| 13... | 0332 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 105                                                    |
| 13... | 0454 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 255                                                    |
| 13... | 0619 | .78                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 227                                                    |
| 13... | 0708 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 170                                                    |
| 13... | 0925 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 200                                                    |
| 13... | 0951 | 2.3                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 535                                                    |
| 13... | 1025 | 5.4                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 570                                                    |
| 13... | 1049 | 5.9                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 537                                                    |
| 13... | 1112 | 5.8                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 402                                                    |
| 13... | 1138 | 5.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 282                                                    |
| 13... | 1207 | 4.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 213                                                    |
| 13... | 1346 | 1.7                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 174                                                    |
| 13... | 1513 | 1.5                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 234                                                    |
| 13... | 1643 | 1.3                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 187                                                    |
| 13... | 1827 | 1.3                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 153                                                    |
| 13... | 2002 | 1.5                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 123                                                    |
| 13... | 2144 | .95                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 80                                                     |
| 13... | 2327 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 83                                                     |
| 14... | 0029 | .52                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 75                                                     |
| APR   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                        |
| 03... | 2127 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 772                                                    |
| 03... | 2151 | 6.4                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 639                                                    |
| 03... | 2208 | 8.4                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 712                                                    |
| 03... | 2223 | 9.4                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 585                                                    |
| 03... | 2236 | 9.9                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 378                                                    |
| 03... | 2250 | 10                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 290                                                    |
| 03... | 2303 | 9.7                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 240                                                    |
| 03... | 2317 | 9.4                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 221                                                    |
| 03... | 2331 | 8.9                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 204                                                    |
| 03... | 2346 | 8.4                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 190                                                    |
| 04... | 0002 | 7.9                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 192                                                    |
| 04... | 0019 | 7.4                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 174                                                    |
| 04... | 0038 | 6.8                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 177                                                    |
| 04... | 0059 | 6.4                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 184                                                    |
| 04... | 0121 | 6.0                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 188                                                    |
| 04... | 0145 | 5.3                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 182                                                    |
| 04... | 0214 | 4.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 167                                                    |
| 04... | 0254 | 2.6                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 138                                                    |
| 04... | 0409 | 1.1                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 116                                                    |
| 04... | 0511 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 114                                                    |
| 06... | 0128 | .68                                                                   | <.010                                                                    | 3.4                                                                           | .030                                                                     | <.010                                                                    | .250                                                                     | 1.10                                                  | --                                                                       | <.05                                                                        | --                                                                         | 598                                                    |
| 06... | 0252 | .68                                                                   | <.010                                                                    | 2.2                                                                           | .030                                                                     | <.010                                                                    | .340                                                                     | .780                                                  | --                                                                       | <.05                                                                        | --                                                                         | 256                                                    |
| 14... | 2011 | .62                                                                   | .030                                                                     | 1.9                                                                           | .910                                                                     | <.010                                                                    | E.450                                                                    | 1.00                                                  | --                                                                       | <.05                                                                        | --                                                                         | 633                                                    |
| 14... | 2108 | 2.6                                                                   | .030                                                                     | 3.0                                                                           | .750                                                                     | <.010                                                                    | E.550                                                                    | 1.20                                                  | --                                                                       | <.05                                                                        | --                                                                         | 321                                                    |
| 14... | 2153 | 3.3                                                                   | .040                                                                     | 3.4                                                                           | .440                                                                     | <.010                                                                    | E.630                                                                    | 1.20                                                  | --                                                                       | <.05                                                                        | --                                                                         | 246                                                    |
| 14... | 2232 | 4.0                                                                   | .040                                                                     | 3.6                                                                           | .320                                                                     | <.010                                                                    | E.570                                                                    | 1.20                                                  | --                                                                       | <.05                                                                        | --                                                                         | 255                                                    |
| 14... | 2258 | 6.2                                                                   | .030                                                                     | 3.4                                                                           | .180                                                                     | <.010                                                                    | E.530                                                                    | 1.20                                                  | --                                                                       | <.05                                                                        | --                                                                         | 367                                                    |
| 14... | 2319 | 6.8                                                                   | .040                                                                     | 3.5                                                                           | .060                                                                     | <.010                                                                    | E.520                                                                    | 1.20                                                  | --                                                                       | <.05                                                                        | --                                                                         | 370                                                    |
| 14... | 2339 | 6.7                                                                   | .040                                                                     | 3.0                                                                           | <.020                                                                    | <.010                                                                    | E.530                                                                    | 1.10                                                  | --                                                                       | <.05                                                                        | --                                                                         | 282                                                    |
| 14... | 2400 | 6.1                                                                   | .040                                                                     | 2.8                                                                           | <.020                                                                    | <.010                                                                    | E.560                                                                    | 1.00                                                  | --                                                                       | <.05                                                                        | --                                                                         | 197                                                    |
| 15... | 0025 | 5.0                                                                   | .040                                                                     | 2.7                                                                           | <.020                                                                    | <.010                                                                    | E.590                                                                    | .960                                                  | --                                                                       | <.05                                                                        | --                                                                         | 147                                                    |
| 15... | 0103 | 2.4                                                                   | .040                                                                     | 2.2                                                                           | <.020                                                                    | <.010                                                                    | E.610                                                                    | .520                                                  | --                                                                       | <.05                                                                        | --                                                                         | 104                                                    |
| MAY   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                        |
| 05... | 2001 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 965                                                    |
| 05... | 2101 | 3.1                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1120                                                   |
| 05... | 2141 | 3.5                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 352                                                    |
| 05... | 2223 | 2.9                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 245                                                    |
| 05... | 2335 | 1.1                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 177                                                    |
| 06... | 0008 | .68                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 143                                                    |

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

|       |      | DIS-CHARGE,<br>INST.<br>CUBIC     | NITRO-GEN,<br>AMMONIA<br>DIS-       | NITRO-GEN, AM-MONIA +<br>ORGANIC   | NITRO-GEN,<br>NO2+NO3               | NITRO-GEN,<br>NITRITE<br>DIS-       | PHOS-PHORUS<br>ORTHO,<br>DIS-       | PHOS-PHORUS<br>TOTAL      | ATRA-ZINE<br>WAT FLT<br>REC           | FLUO-RUMETURON<br>WAT FLT<br>REC      | METRI-BUZIN<br>WAT FLT<br>REC         | SEDI-MENT,<br>SUS-PENDED     |
|-------|------|-----------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------|---------------------------------------|---------------------------------------|---------------------------------------|------------------------------|
| DATE  | TIME | FTEET<br>PER<br>SECOND<br>(00061) | SOLVED<br>(MG/L<br>AS N)<br>(00608) | TOTAL<br>(MG/L<br>AS N)<br>(00625) | SOLVED<br>(MG/L<br>AS N)<br>(00631) | SOLVED<br>(MG/L<br>AS N)<br>(00613) | SOLVED<br>(MG/L<br>AS P)<br>(00671) | (MG/L<br>AS P)<br>(00665) | IMMUNO.<br>UNADJ<br>(UG/L)<br>(99775) | IMMUNO.<br>UNADJ<br>(UG/L)<br>(99773) | IMMUNO.<br>UNADJ<br>(UG/L)<br>(99774) | (MG/L)<br>PENDEED<br>(80154) |
| MAY   |      |                                   |                                     |                                    |                                     |                                     |                                     |                           |                                       |                                       |                                       |                              |
| 31... | 0816 | .68                               | .500                                | 3.5                                | 5.90                                | .070                                | .360                                | 1.40                      | --                                    | 52.4                                  | --                                    | 1040                         |
| 31... | 0953 | 2.7                               | .400                                | 2.9                                | 4.80                                | .070                                | .350                                | 1.00                      | --                                    | 15.7                                  | --                                    | 731                          |
| 31... | 1038 | 2.7                               | .400                                | 2.6                                | 6.40                                | .070                                | .350                                | .660                      | --                                    | 14.9                                  | --                                    | 320                          |
| JUL   |      |                                   |                                     |                                    |                                     |                                     |                                     |                           |                                       |                                       |                                       |                              |
| 15... | 2224 | .68                               | .500                                | 1.5                                | 1.80                                | .030                                | .160                                | .430                      | --                                    | 1.21                                  | --                                    | 148                          |
| 15... | 2400 | 1.7                               | .600                                | 1.3                                | 1.80                                | .030                                | .120                                | .320                      | --                                    | 1.35                                  | --                                    | 123                          |
| 16... | 0108 | 2.2                               | .500                                | 1.2                                | 1.40                                | .030                                | .130                                | .260                      | --                                    | 1.24                                  | --                                    | 144                          |
| 16... | 0204 | 2.5                               | .500                                | .77                                | 1.30                                | .030                                | .130                                | .220                      | --                                    | 1.10                                  | --                                    | 73                           |
| 16... | 0254 | 2.8                               | .500                                | .86                                | 1.20                                | .030                                | .110                                | .230                      | --                                    | 1.90                                  | --                                    | 71                           |
| 16... | 0339 | 3.0                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 105                          |
| 16... | 0432 | 3.2                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 70                           |
| 16... | 0504 | 3.3                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 77                           |
| 16... | 0546 | 3.4                               | .400                                | .66                                | .990                                | .020                                | .090                                | .180                      | --                                    | 1.31                                  | --                                    | 97                           |
| 16... | 0624 | 3.5                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 108                          |
| 16... | 0702 | 3.7                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 77                           |
| 16... | 0739 | 3.8                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 87                           |
| 16... | 0817 | 3.9                               | .300                                | .61                                | .910                                | .020                                | .090                                | .160                      | --                                    | 1.19                                  | --                                    | 66                           |
| 16... | 0851 | 3.9                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 76                           |
| 16... | 0926 | 4.0                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 97                           |
| 16... | 1001 | 4.0                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 62                           |
| 16... | 1036 | 4.0                               | .300                                | .58                                | .860                                | .020                                | .080                                | .140                      | --                                    | 1.32                                  | --                                    | --                           |
| 16... | 1111 | 3.7                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 56                           |
| 16... | 1150 | 3.5                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 114                          |
| 16... | 1229 | 3.5                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 134                          |
| 16... | 1309 | 3.6                               | .300                                | .71                                | .770                                | .030                                | .080                                | .140                      | --                                    | 1.69                                  | --                                    | 86                           |
| AUG   |      |                                   |                                     |                                    |                                     |                                     |                                     |                           |                                       |                                       |                                       |                              |
| 07... | 0323 | .62                               | .060                                | .39                                | .690                                | .030                                | .080                                | .240                      | --                                    | .35                                   | --                                    | 59                           |
| 07... | 0457 | 1.2                               | .200                                | .42                                | .870                                | .040                                | .110                                | .250                      | --                                    | .93                                   | --                                    | 92                           |
| 07... | 0620 | 1.8                               | .300                                | .50                                | .870                                | .060                                | .100                                | .240                      | --                                    | .62                                   | --                                    | 76                           |
| 07... | 0721 | 2.1                               | .200                                | .49                                | .730                                | .050                                | .090                                | .220                      | --                                    | .70                                   | --                                    | 121                          |
| 07... | 0815 | 2.4                               | .200                                | .56                                | .750                                | .040                                | .080                                | .210                      | --                                    | .85                                   | --                                    | 61                           |
| 07... | 0903 | 2.5                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 54                           |
| 07... | 0950 | 2.7                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 78                           |
| 07... | 1036 | 2.8                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 51                           |
| 07... | 1120 | 2.8                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 71                           |
| 07... | 1206 | 2.8                               | .200                                | .60                                | .770                                | .030                                | .090                                | .240                      | --                                    | 1.21                                  | --                                    | 49                           |
| 07... | 1249 | 3.0                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 42                           |
| 07... | 1330 | 3.2                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 52                           |
| 07... | 1443 | 3.7                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 99                           |
| 07... | 1519 | 3.9                               | .100                                | .31                                | .660                                | .020                                | .090                                | .200                      | --                                    | 1.16                                  | --                                    | 94                           |
| 07... | 1551 | 4.0                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 58                           |
| 07... | 1623 | 4.1                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 97                           |
| 07... | 1655 | 4.3                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 95                           |
| 07... | 1725 | 4.4                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 51                           |
| 07... | 1756 | 4.5                               | .100                                | .32                                | .480                                | .020                                | .080                                | .180                      | --                                    | 1.31                                  | --                                    | 128                          |
| 07... | 1852 | 4.7                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 86                           |
| 07... | 1948 | 4.8                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 83                           |
| 20... | 2248 | .57                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 105                          |
| 21... | 0417 | 1.9                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 95                           |
| 21... | 0519 | 2.0                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 69                           |
| 21... | 0619 | 2.1                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 47                           |
| 21... | 0716 | 2.1                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 57                           |
| 21... | 0812 | 2.2                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 58                           |
| 21... | 0906 | 2.2                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 59                           |
| 21... | 1000 | 2.3                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 99                           |
| 21... | 1053 | 2.3                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 44                           |
| 21... | 1146 | 2.3                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 33                           |
| 21... | 1239 | 2.3                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 58                           |
| 21... | 1332 | 2.3                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 58                           |
| 21... | 1430 | 1.6                               | --                                  | --                                 | --                                  | --                                  | --                                  | --                        | --                                    | --                                    | --                                    | 109                          |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

## DISCRETE SAMPLE SUPPLEMENTAL DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

|       |       | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>WATER,<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)  | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) |                                                                                |
|-------|-------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| NOV   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 14... | 1252  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | .140                                                                       | <.050                                                                     | .900                                                                         |                                                                                |
| 14... | 1612  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .670                                                                         |                                                                                |
| 20... | 0620  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .550                                                                         |                                                                                |
| DEC   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 07... | 0900  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                        |                                                                                |
| 07... | 1018  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | .0800                                                                      | <.050                                                                     | .380                                                                         |                                                                                |
| 11... | 1840  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | .0700                                                                      | <.050                                                                     | .190                                                                         |                                                                                |
| MAY   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 31... | 0816  | <.050                                                                       | <.0500                                                               | <.050                                                          | .130                                                                                    | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 4.68                                                                         |                                                                                |
| 31... | 0953  | <.050                                                                       | <.0500                                                               | <.050                                                          | .170                                                                                    | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 5.63                                                                         |                                                                                |
| JUL   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 15... | 2400  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                                   | <.050                                                         | 14.2                                                            | 2.78                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .580                                                                         |                                                                                |
| 16... | 0254  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                                   | <.050                                                         | 7.01                                                            | 2.83                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .710                                                                         |                                                                                |
| AUG   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 07... | 0323  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                                   | <.050                                                         | .360                                                            | 1.46                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .350                                                                         |                                                                                |
| DATE  | TIME  | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)                                | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)   | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)         | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLURO-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)        | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) |
| NOV   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 14... | <.050 | .430                                                                        | <.050                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| 14... | <.050 | .300                                                                        | <.050                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| 20... | <.050 | .110                                                                        | <.050                                                                | <.050                                                          | <.050                                                                                   | .070                                                          | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| DEC   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 07... | <.050 | <.050                                                                       | <.050                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| 07... | <.050 | .080                                                                        | <.050                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| 11... | <.050 | .060                                                                        | <.050                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| MAY   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 31... | .450  | 35.6                                                                        | .110                                                                 | <.050                                                          | <.050                                                                                   | .060                                                          | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | 1.65                                                                         |                                                                                |
| 31... | .230  | 21.4                                                                        | <.050                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| JUL   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 15... | <.050 | 1.20                                                                        | <.050                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | .0600                                                                      | <.05                                                                      | <.050                                                                        |                                                                                |
| 16... | <.050 | 1.15                                                                        | <.050                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| AUG   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 07... | <.050 | .270                                                                        | <.050                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |

## 0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

GRAB SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|--------------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| MAR<br>19... | 1543 | 1.3                                                                   | 100                                                   |

COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[illegible]

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

[illegible][illegible]

## 0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

|       |      | DIS-CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | NITRO-GEN,<br>AMMONIA<br>DIS-SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-GEN,AM-MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-GEN,<br>NO2+NO3<br>DIS-SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-GEN,<br>NITRITE<br>DIS-SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-PHORUS<br>ORTHO,<br>DIS-SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | ATRA-ZINE<br>WAT FLT REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99775) | FLUO-METURON<br>WAT FLT REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99773) | METRI-BUZIN<br>WAT FLT REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99774) | SEDI-MENT,<br>SUS-PENDED<br>(MG/L)<br>(80154) |
|-------|------|-------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------|
| DEC   |      |                                                                   |                                                                  |                                                                       |                                                                  |                                                                  |                                                                  |                                                   |                                                                   |                                                                      |                                                                     |                                               |
| 12... | 1650 | 1.7                                                               | .030                                                             | 2.1                                                                   | .190                                                             | <.010                                                            | .600                                                             | .900                                              | --                                                                | .15                                                                  | --                                                                  | 227                                           |
| 12... | 1812 | 2.2                                                               | .020                                                             | 3.3                                                                   | .330                                                             | <.010                                                            | .320                                                             | 1.40                                              | --                                                                | .23                                                                  | --                                                                  | 918                                           |
| 12... | 1905 | 2.2                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 973                                           |
| 12... | 1959 | 1.9                                                               | .030                                                             | 3.0                                                                   | .380                                                             | <.010                                                            | .420                                                             | 1.40                                              | --                                                                | .24                                                                  | --                                                                  | 732                                           |
| 12... | 2055 | 2.0                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 690                                           |
| 12... | 2216 | .62                                                               | .030                                                             | 2.5                                                                   | .370                                                             | <.010                                                            | .460                                                             | 1.30                                              | --                                                                | .37                                                                  | --                                                                  | 541                                           |
| 12... | 2316 | .62                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 451                                           |
| JAN   |      |                                                                   |                                                                  |                                                                       |                                                                  |                                                                  |                                                                  |                                                   |                                                                   |                                                                      |                                                                     |                                               |
| 03... | 1416 | .57                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 683                                           |
| 03... | 1553 | 1.4                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 1550                                          |
| 03... | 1752 | .62                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 1040                                          |
| 29... | 1648 | .57                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 188                                           |
| FEB   |      |                                                                   |                                                                  |                                                                       |                                                                  |                                                                  |                                                                  |                                                   |                                                                   |                                                                      |                                                                     |                                               |
| 13... | 1659 | .57                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 531                                           |
| 13... | 1802 | 2.0                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 1450                                          |
| 13... | 1857 | 2.1                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 1100                                          |
| 13... | 2004 | 1.3                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 624                                           |
| 13... | 2138 | .62                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 431                                           |
| MAR   |      |                                                                   |                                                                  |                                                                       |                                                                  |                                                                  |                                                                  |                                                   |                                                                   |                                                                      |                                                                     |                                               |
| 10... | 1932 | .57                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 355                                           |
| 10... | 2108 | .62                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 240                                           |
| 11... | 0140 | .57                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 131                                           |
| 11... | 0232 | .84                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 157                                           |
| 11... | 0441 | .84                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 146                                           |
| 11... | 0825 | .27                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 111                                           |
| 16... | 0943 | --                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 107                                           |
| 16... | 0954 | .57                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 113                                           |
| 16... | 1003 | .57                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 95                                            |
| 16... | 1040 | 3.4                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 148                                           |
| 16... | 1113 | 4.1                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 273                                           |
| 16... | 1142 | 4.6                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 285                                           |
| 16... | 1213 | 4.0                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 244                                           |
| 16... | 1250 | 3.0                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 158                                           |
| 16... | 1344 | 1.7                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 159                                           |
| 16... | 1540 | .62                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 114                                           |
| 18... | 2257 | .57                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 209                                           |
| 19... | 0008 | 2.5                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 187                                           |
| 19... | 0048 | 3.6                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 168                                           |
| 19... | 0123 | 3.8                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 117                                           |
| 19... | 0159 | 3.4                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 122                                           |
| 19... | 0235 | 3.9                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 110                                           |
| 19... | 0305 | 4.7                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 104                                           |
| 19... | 0333 | 5.1                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 124                                           |
| 19... | 0359 | 5.0                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 234                                           |
| 19... | 0426 | 4.6                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 168                                           |
| 19... | 0458 | 3.7                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 142                                           |
| 19... | 0540 | 2.5                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 149                                           |
| 19... | 0644 | 1.4                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 109                                           |
| 19... | 1010 | .57                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 65                                            |
| 19... | 1115 | 3.2                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 105                                           |
| 19... | 1148 | 4.6                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 108                                           |
| 19... | 1215 | 5.0                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 111                                           |
| 19... | 1241 | 5.1                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 92                                            |
| 19... | 1308 | 4.8                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 104                                           |
| 19... | 1339 | 3.9                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 96                                            |
| 19... | 1419 | 2.7                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 78                                            |
| 19... | 1517 | 1.6                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 105                                           |
| 19... | 1540 | 1.3                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 178                                           |
| 19... | 1542 | 1.3                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 100                                           |
| APR   |      |                                                                   |                                                                  |                                                                       |                                                                  |                                                                  |                                                                  |                                                   |                                                                   |                                                                      |                                                                     |                                               |
| 01... | 1841 | 1.5                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 177                                           |
| 01... | 1913 | 9.3                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 216                                           |
| 01... | 1926 | 13                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 357                                           |
| 01... | 1936 | 16                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 221                                           |
| 01... | 1944 | 19                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 940                                           |
| 01... | 1950 | 22                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 1100                                          |
| 01... | 1957 | 23                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 296                                           |
| 01... | 2002 | 24                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 356                                           |
| 01... | 2008 | 24                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 457                                           |
| 01... | 2014 | 25                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 381                                           |
| 01... | 2019 | 25                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 393                                           |
| 01... | 2024 | 25                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 392                                           |
| 01... | 2030 | 24                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 552                                           |
| 01... | 2035 | 24                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 460                                           |
| 01... | 2041 | 24                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 492                                           |
| 01... | 2046 | 24                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 614                                           |
| 01... | 2052 | 23                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 653                                           |
| 01... | 2058 | 23                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 700                                           |
| 01... | 2103 | 23                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 662                                           |
| 01... | 2109 | 22                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 685                                           |
| 01... | 2115 | 22                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 721                                           |
| 01... | 2121 | 21                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 634                                           |
| 01... | 2128 | 21                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 498                                           |
| 01... | 2134 | 20                                                                | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 408                                           |
| 02... | 1826 | 4.2                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 362                                           |
| 02... | 1857 | 4.1                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 231                                           |
| 02... | 1932 | 3.2                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 223                                           |
| 02... | 2022 | 1.9                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 201                                           |
| 02... | 2127 | 1.0                                                               | --                                                               | --                                                                    | --                                                               | --                                                               | --                                                               | --                                                | --                                                                | --                                                                   | --                                                                  | 158                                           |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728711620 UNKNOWN LAKE TRIBUTARY NO 2 NEAR SIDON, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

[illegible]

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR SIDON, MS

LOCATION.--Lat 33°24'15", long 90°40'05", in SW $\frac{1}{4}$  SE $\frac{1}{4}$  sec.13, T.18 N., R.5 W., Choctaw Meridian, Sunflower County, Hydrologic Unit 08030207, on tributary approximately 300 ft upstream of Beasley Lake, approximately 0.15 mi south of Big Sunflower River levee, and 2.5 mi southwest of Indianola.

DRAINAGE AREA.--0.03 mi<sup>2</sup> (17.8 acres).

PERIOD OF RECORD.--Water years 1996 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 102.20 ft above sea level. Automatic pumping water-quality and sediment samplers since September 1996.

REMARKS.--Unpublished records of gage height and discharge during selected storm events are available in files of District office. Occasionally, records of gage height and discharge were not computed due to backwater or malfunction of the instruments.

WATER YEAR 1996: No estimated discharges. Discharge records fair.

WATER YEAR 1997: Estimated discharges: Jan. 27, 28, Feb. 4, 7, 21, 28, and Mar. 1-3, 5, 18. Records fair except for estimated discharges which are poor.

WATER YEAR 1998: No estimated discharges. Discharge records fair.

WATER YEAR 1999: No estimated discharges. Discharge records fair.

WATER YEAR 2000: No estimated discharges. Discharge records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 27 ft<sup>3</sup>/s, June 9, 1997, gage height 2.49 ft, maximum gage height, 2.49 ft. Higher gage height may have occurred during periods of estimated record; no flow for many days during each year.

EXTREMES FOR CURRENT YEAR.--

WATER YEAR 1996: Maximum discharge for September, 9.6 ft<sup>3</sup>/s, Sept. 16, gage height, 1.88 ft; no flow for many days during year.

WATER YEAR 1997: Maximum discharge 27 ft<sup>3</sup>/s, June 9, gage height 2.49 ft, maximum gage height, 2.49 ft. Higher gage height may have occurred during period of estimated record; no flow for many days during year.

WATER YEAR 1998: Maximum discharge 16 ft<sup>3</sup>/s, March 7, gage height 1.95 ft; no flow for many days during year.

WATER YEAR 1999: Maximum discharge 7.7 ft<sup>3</sup>/s, May 5, gage height, 1.49 ft, maximum gage height 2.16 ft, Jan. 8; no flow for many days during year.

WATER YEAR 2000: Maximum discharge 18 ft<sup>3</sup>/s, Apr. 1, gage height 2.08 ft; no flow for many days during year.

## SELECTED RUNOFF EVENTS, 1996 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 08-16 | 0055 | 0.05        | --        | 08-27 | 0130 | 0.05        | --        |
| 08-16 | 0105 | 0.17        | 0.06      | 08-27 | 0135 | 0.25        | 0.12      |
| 08-16 | 0110 | 0.25        | 0.12      | 08-27 | 0140 | 0.60        | 0.74      |
| 08-16 | 0115 | 0.60        | 0.74      | 08-27 | 0145 | 0.79        | 1.3       |
| 08-16 | 0120 | 0.75        | 1.2       | 08-27 | 0150 | 1.00        | 2.2       |
| 08-16 | 0125 | 0.90        | 1.8       | 08-27 | 0155 | 1.16        | 3.1       |
| 08-16 | 0130 | 0.97        | 2.1       | 08-27 | 0200 | 1.28        | 3.9       |
| 08-16 | 0140 | 1.04        | 2.5       | 08-27 | 0205 | 1.36        | 4.5       |
| 08-16 | 0145 | 1.17        | 3.2       | 08-27 | 0210 | 1.41        | 4.9       |
| 08-16 | 0150 | 1.35        | 4.4       | 08-27 | 0215 | 1.45        | 5.2       |
| 08-16 | 0155 | 1.45        | 5.2       | 08-27 | 0220 | 1.45        | 5.2       |
| 08-16 | 0200 | 1.51        | 5.7       | 08-27 | 0225 | 1.48        | 5.5       |
| 08-16 | 0205 | 1.71        | 7.7       | 08-27 | 0230 | 1.54        | 6.0       |
| 08-16 | 0210 | 1.85        | 9.2       | 08-27 | 0235 | 1.56        | 6.2       |
| 08-16 | 0215 | 1.87        | 9.5       | 08-27 | 0240 | 1.54        | 6.0       |
| 08-16 | 0220 | 1.86        | 9.4       | 08-27 | 0245 | 1.53        | 5.9       |
| 08-16 | 0225 | 1.82        | 8.9       | 08-27 | 0250 | 1.50        | 5.6       |
| 08-16 | 0230 | 1.80        | 8.7       | 08-27 | 0255 | 1.49        | 5.6       |
| 08-16 | 0235 | 1.77        | 8.3       | 08-27 | 0300 | 1.47        | 5.4       |
| 08-16 | 0240 | 1.74        | 8.0       | 08-27 | 0310 | 1.41        | 4.9       |
| 08-16 | 0245 | 1.71        | 7.7       | 08-27 | 0320 | 1.36        | 4.5       |
| 08-16 | 0300 | 1.58        | 6.4       | 08-27 | 0330 | 1.30        | 4.1       |
| 08-16 | 0315 | 1.44        | 5.1       | 08-27 | 0345 | 1.19        | 3.3       |
| 08-16 | 0330 | 1.29        | 4.0       | 08-27 | 0400 | 1.09        | 2.7       |
| 08-16 | 0345 | 1.16        | 3.1       | 08-27 | 0430 | 0.96        | 2.1       |
| 08-16 | 0400 | 1.03        | 2.4       | 08-27 | 0500 | 0.86        | 1.6       |
| 08-16 | 0415 | 0.93        | 1.9       | 08-27 | 0530 | 0.86        | 1.6       |
| 08-16 | 0430 | 0.83        | 1.5       | 08-27 | 0600 | 0.80        | 1.4       |
| 08-16 | 0500 | 0.65        | .88       | 08-27 | 0630 | 0.71        | 1.1       |
| 08-16 | 0530 | 0.50        | .51       | 08-27 | 0700 | 0.57        | .67       |
| 08-16 | 0600 | 0.39        | .30       | 08-27 | 0800 | 0.34        | .23       |
| 08-16 | 0630 | 0.32        | .20       | 08-27 | 0900 | 0.24        | .12       |
| 08-16 | 0700 | 0.25        | .12       | 08-27 | 1000 | 0.17        | .06       |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR SIDON, MS--Continued

## SELECTED RUNOFF EVENTS, 1997 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 10-25 | 2315 | 0.08        | --        | 06-09 | 1600 | 0.58        | --        | 08-11 | 1820 | 0.58        | --        |
| 10-25 | 2330 | 0.43        | 0.37      | 06-09 | 1605 | 0.77        | .76       | 08-11 | 1825 | 0.73        | .56       |
| 10-25 | 2400 | 0.45        | 0.41      | 06-09 | 1610 | 1.24        | 4.7       | 08-11 | 1830 | 0.89        | 1.5       |
| 10-26 | 0015 | 0.44        | 0.39      | 06-09 | 1615 | 1.79        | 12        | 08-11 | 1835 | 1.10        | 3.2       |
| 10-26 | 0030 | 0.45        | 0.41      | 06-09 | 1620 | 2.17        | 20        | 08-11 | 1840 | 1.23        | 4.6       |
| 10-26 | 0045 | 0.55        | 0.62      | 06-09 | 1625 | 2.36        | 24        | 08-11 | 1845 | 1.31        | 5.5       |
| 10-26 | 0100 | 0.62        | 0.79      | 06-09 | 1630 | 2.44        | 26        | 08-11 | 1850 | 1.37        | 6.2       |
| 10-26 | 0115 | 0.65        | 0.88      | 06-09 | 1635 | 2.49        | 27        | 08-11 | 1855 | 1.38        | 6.4       |
| 10-26 | 0130 | 0.65        | 0.88      | 06-09 | 1640 | 2.48        | 27        | 08-11 | 1900 | 1.38        | 6.4       |
| 10-26 | 0145 | 0.64        | 0.85      | 06-09 | 1645 | 2.47        | 26        | 08-11 | 1905 | 1.36        | 6.1       |
| 10-26 | 0200 | 0.67        | 0.94      | 06-09 | 1650 | 2.44        | 26        | 08-11 | 1910 | 1.34        | 5.8       |
| 10-26 | 0215 | 0.70        | 1.0       | 06-09 | 1655 | 2.42        | 25        | 08-11 | 1915 | 1.32        | 5.6       |
| 10-26 | 0230 | 0.74        | 2.0       | 06-09 | 1700 | 2.38        | 24        | 08-11 | 1930 | 1.23        | 4.6       |
| 10-26 | 0245 | 0.82        | 1.4       | 06-09 | 1710 | 2.26        | 22        | 08-11 | 1945 | 1.15        | 3.7       |
| 10-26 | 0300 | 0.96        | 2.1       | 06-09 | 1720 | 2.15        | 19        | 08-11 | 2000 | 1.08        | 3.0       |
| 10-26 | 0315 | 1.12        | 2.9       | 06-09 | 1730 | 2.07        | 18        | 08-11 | 2015 | 1.01        | 2.4       |
| 10-26 | 0330 | 1.19        | 3.3       | 06-09 | 1745 | 1.96        | 16        | 08-11 | 2030 | 0.95        | 1.9       |
| 10-26 | 0345 | 1.22        | 3.5       | 06-09 | 1800 | 1.80        | 13        | 08-11 | 2045 | 0.90        | 1.5       |
| 10-26 | 0400 | 1.19        | 3.3       | 06-09 | 1815 | 1.61        | 9.5       | 08-11 | 2100 | 0.84        | 1.2       |
| 10-26 | 0415 | 1.14        | 3.0       | 06-09 | 1830 | 1.45        | 7.2       | 08-11 | 2115 | 0.79        | .87       |
| 10-26 | 0430 | 1.08        | 2.7       | 06-09 | 1845 | 1.36        | 6.1       | 08-11 | 2130 | 0.74        | .61       |
| 10-26 | 0445 | 1.02        | 2.4       | 06-09 | 1900 | 1.29        | 5.2       | 08-11 | 2145 | 0.70        | .43       |
| 10-26 | 0500 | 0.95        | 2.0       | 06-09 | 1915 | 1.22        | 4.5       |       |      |             |           |
| 10-26 | 0515 | 0.89        | 1.7       | 06-09 | 1930 | 1.15        | 3.7       |       |      |             |           |
| 10-26 | 0530 | 0.82        | 1.5       | 06-09 | 1945 | 1.10        | 3.2       |       |      |             |           |
| 10-26 | 0600 | 0.72        | 1.1       | 06-09 | 2000 | 1.05        | 2.8       |       |      |             |           |
| 10-26 | 0630 | 0.58        | .69       | 06-09 | 2015 | 1.01        | 2.4       |       |      |             |           |
| 10-26 | 0700 | 0.47        | .45       | 06-09 | 2030 | 0.98        | 2.2       |       |      |             |           |
| 10-26 | 0730 | 0.38        | .29       | 06-09 | 2100 | 0.98        | 2.2       |       |      |             |           |
| 10-26 | 0800 | 0.32        | .20       | 06-09 | 2130 | 0.97        | 2.1       |       |      |             |           |
| 10-26 | 0830 | 0.28        | .16       | 06-09 | 2200 | 0.91        | 1.6       |       |      |             |           |
| 10-26 | 0900 | 0.25        | .12       | 06-09 | 2230 | 0.84        | 1.2       |       |      |             |           |
| 10-26 | 1000 | 0.20        | .08       | 06-09 | 2300 | 0.77        | .76       |       |      |             |           |
| 10-26 | 1100 | 0.16        | .05       | 06-09 | 2330 | 0.72        | .52       |       |      |             |           |
| 10-26 | 1200 | 0.14        | .04       | 06-09 | 2400 | 0.72        | .52       |       |      |             |           |
|       |      |             |           | 06-10 | 0030 | 0.76        | .72       |       |      |             |           |
|       |      |             |           | 06-10 | 0100 | 0.75        | .66       |       |      |             |           |
|       |      |             |           | 06-10 | 0200 | 0.68        | .35       |       |      |             |           |

## SELECTED RUNOFF EVENTS, 1998 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 12-21 | 0605 | 0.59        | --        | 02-26 | 1050 | 0.59        | --        | 05-29 | 0100 | 0.59        | --        |
| 12-21 | 0610 | 0.69        | .39       | 02-26 | 1100 | 0.70        | .43       | 05-29 | 0130 | 0.65        | .66       |
| 12-21 | 0615 | 0.72        | .52       | 02-26 | 1115 | 0.76        | .71       | 05-29 | 0200 | 0.70        | .43       |
| 12-21 | 0630 | 0.83        | 1.1       | 02-26 | 1130 | 0.89        | 1.5       | 05-29 | 0230 | 0.83        | 1.1       |
| 12-21 | 0645 | 0.95        | 1.9       | 02-26 | 1145 | 1.01        | 2.4       | 05-29 | 0300 | 0.86        | 1.3       |
| 12-21 | 0700 | 1.08        | 3.0       | 02-26 | 1150 | 1.04        | 2.7       | 05-29 | 0330 | 0.82        | 1.0       |
| 12-21 | 0710 | 1.19        | 4.1       | 02-26 | 1155 | 1.08        | 3.0       | 05-29 | 0400 | 0.96        | 2.0       |
| 12-21 | 0720 | 1.28        | 5.1       | 02-26 | 1200 | 1.11        | 3.3       | 05-29 | 0430 | 0.93        | 1.8       |
| 12-21 | 0730 | 1.31        | 5.5       | 02-26 | 1205 | 1.15        | 3.7       | 05-29 | 0500 | 0.93        | 1.8       |
| 12-21 | 0740 | 1.31        | 5.5       | 02-26 | 1210 | 1.18        | 4.0       | 05-29 | 0515 | 0.92        | 1.7       |
| 12-21 | 0750 | 1.30        | 5.4       | 02-26 | 1215 | 1.22        | 4.5       | 05-29 | 0530 | 1.00        | 2.3       |
| 12-21 | 0800 | 1.27        | 5.0       | 02-26 | 1220 | 1.23        | 4.6       | 05-29 | 0545 | 1.13        | 3.5       |
| 12-21 | 0810 | 1.22        | 4.5       | 02-26 | 1225 | 1.23        | 4.6       | 05-29 | 0600 | 1.22        | 4.5       |
| 12-21 | 0820 | 1.17        | 3.9       | 02-26 | 1230 | 1.22        | 4.5       | 05-29 | 0615 | 1.24        | 4.7       |
| 12-21 | 0830 | 1.10        | 3.2       | 02-26 | 1245 | 1.17        | 3.9       | 05-29 | 0630 | 1.23        | 4.6       |
| 12-21 | 0845 | 1.01        | 2.4       | 02-26 | 1300 | 1.12        | 3.4       | 05-29 | 0645 | 1.24        | 4.7       |
| 12-21 | 0900 | 0.94        | 1.8       | 02-26 | 1315 | 1.06        | 2.9       | 05-29 | 0700 | 1.22        | 4.5       |
| 12-21 | 0915 | 0.87        | 1.3       | 02-26 | 1330 | 1.01        | 2.4       | 05-29 | 0715 | 1.21        | 4.4       |
| 12-21 | 0930 | 0.85        | 1.2       | 02-26 | 1345 | 0.97        | 2.1       | 05-29 | 0730 | 1.20        | 4.2       |
| 12-21 | 0945 | 0.84        | 1.2       | 02-26 | 1400 | 0.94        | 1.8       | 05-29 | 0745 | 1.19        | 4.1       |
| 12-21 | 1000 | 0.81        | .98       | 02-26 | 1415 | 0.90        | 1.6       | 05-29 | 0800 | 1.18        | 4.0       |
| 12-21 | 1015 | 0.78        | .82       | 02-26 | 1430 | 0.87        | 1.3       | 05-29 | 0815 | 1.16        | 3.8       |
| 12-21 | 1030 | 0.76        | .71       | 02-26 | 1500 | 0.81        | .98       | 05-29 | 0830 | 1.15        | 3.7       |
| 12-21 | 1100 | 0.72        | .52       | 02-26 | 1530 | 0.76        | .71       | 05-29 | 0845 | 1.13        | 3.5       |
| 12-21 | 1200 | 0.68        | .35       | 02-26 | 1600 | 0.72        | .52       | 05-29 | 0900 | 1.11        | 3.3       |
|       |      |             |           | 02-26 | 1630 | 0.68        | .35       | 05-29 | 0930 | 1.06        | 2.9       |
|       |      |             |           |       |      |             |           | 05-29 | 1000 | 1.13        | 3.5       |
|       |      |             |           |       |      |             |           | 05-29 | 1015 | 1.14        | 3.6       |
|       |      |             |           |       |      |             |           | 05-29 | 1030 | 1.12        | 3.4       |
|       |      |             |           |       |      |             |           | 05-29 | 1045 | 1.09        | 3.1       |
|       |      |             |           |       |      |             |           | 05-29 | 1100 | 1.07        | 3.0       |
|       |      |             |           |       |      |             |           | 05-29 | 1130 | 1.02        | 2.5       |
|       |      |             |           |       |      |             |           | 05-29 | 1200 | 0.97        | 2.1       |
|       |      |             |           |       |      |             |           | 05-29 | 1300 | 0.89        | 1.5       |
|       |      |             |           |       |      |             |           | 05-29 | 1400 | 0.81        | .98       |
|       |      |             |           |       |      |             |           | 05-29 | 1500 | 0.71        | .47       |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR SIDON, MS--Continued

## SELECTED RUNOFF EVENTS, 1999 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 12-21 | 2320 | 1.44        | --        | 05-05 | 1810 | 0.67        | --        | 06-13 | 1500 | 0.58        | --        |
| 12-21 | 2325 | 1.52        | .26       | 05-05 | 1815 | 0.75        | .66       | 06-13 | 1505 | 0.72        | .52       |
| 12-21 | 2330 | 1.57        | .51       | 05-05 | 1830 | 0.80        | .93       | 06-13 | 1510 | 1.03        | 2.6       |
| 12-21 | 2340 | 1.60        | .68       | 05-05 | 1845 | 0.93        | 1.8       | 06-13 | 1515 | 1.06        | 2.9       |
| 12-21 | 2350 | 1.61        | .73       | 05-05 | 1850 | 1.03        | 2.6       | 06-13 | 1520 | 1.10        | 3.2       |
| 12-21 | 2400 | 1.62        | .79       | 05-05 | 1855 | 1.16        | 3.8       | 06-13 | 1525 | 1.13        | 3.5       |
| 12-22 | 0010 | 1.62        | .79       | 05-05 | 1900 | 1.33        | 5.7       | 06-13 | 1530 | 1.15        | 3.7       |
| 12-22 | 0020 | 1.62        | .79       | 05-05 | 1905 | 1.41        | 6.7       | 06-13 | 1540 | 1.15        | 3.7       |
| 12-22 | 0030 | 1.62        | .79       | 05-05 | 1910 | 1.48        | 7.6       | 06-13 | 1550 | 1.14        | 3.6       |
| 12-22 | 0045 | 1.62        | .79       | 05-05 | 1915 | 1.49        | 7.8       | 06-13 | 1600 | 1.11        | 3.3       |
| 12-22 | 0100 | 1.62        | .79       | 05-05 | 1920 | 1.47        | 7.5       | 06-13 | 1610 | 1.07        | 3.0       |
| 12-22 | 0115 | 1.63        | .85       | 05-05 | 1925 | 1.44        | 7.1       | 06-13 | 1620 | 1.03        | 2.6       |
| 12-22 | 0130 | 1.65        | .98       | 05-05 | 1930 | 1.41        | 6.7       | 06-13 | 1630 | 0.99        | 2.2       |
| 12-22 | 0145 | 1.67        | 1.1       | 05-05 | 1945 | 1.32        | 5.6       | 06-13 | 1645 | 0.93        | 1.8       |
| 12-22 | 0200 | 1.68        | 1.2       | 05-05 | 2000 | 1.22        | 4.5       | 06-13 | 1700 | 0.88        | 1.4       |
| 12-22 | 0215 | 1.68        | 1.2       | 05-05 | 2015 | 1.13        | 3.5       | 06-13 | 1715 | 0.84        | 1.2       |
| 12-22 | 0230 | 1.67        | 1.1       | 05-05 | 2030 | 1.06        | 2.9       | 06-13 | 1730 | 0.80        | .93       |
| 12-22 | 0245 | 1.66        | 1.0       | 05-05 | 2045 | 1.00        | 2.3       | 06-13 | 1800 | 0.73        | .56       |
| 12-22 | 0300 | 1.65        | .98       | 05-05 | 2100 | 0.94        | 1.8       | 06-13 | 1830 | 0.68        | .35       |
| 12-22 | 0330 | 1.63        | .85       | 05-05 | 2130 | 0.85        | 1.2       |       |      |             |           |
| 12-22 | 0400 | 1.61        | .73       | 05-05 | 2200 | 0.78        | .82       |       |      |             |           |
| 12-22 | 0430 | 1.60        | .68       | 05-05 | 2230 | 0.74        | .61       |       |      |             |           |
| 12-22 | 0500 | 1.58        | .58       | 05-05 | 2300 | 0.70        | .43       |       |      |             |           |
| 12-22 | 0530 | 1.57        | .51       |       |      |             |           |       |      |             |           |
| 12-22 | 0600 | 1.55        | .39       |       |      |             |           |       |      |             |           |
| 12-22 | 0630 | 1.54        | .34       |       |      |             |           |       |      |             |           |
| 12-22 | 0700 | 1.53        | .30       |       |      |             |           |       |      |             |           |
| 12-22 | 0730 | 1.52        | .26       |       |      |             |           |       |      |             |           |
| 12-22 | 0800 | 1.51        | .22       |       |      |             |           |       |      |             |           |
| 12-22 | 0900 | 1.50        | .19       |       |      |             |           |       |      |             |           |
| 12-22 | 1000 | 1.48        | .14       |       |      |             |           |       |      |             |           |
| 12-22 | 1100 | 1.47        | --        |       |      |             |           |       |      |             |           |
| 12-22 | 1200 | 1.46        | --        |       |      |             |           |       |      |             |           |

## SELECTED RUNOFF EVENTS, 2000 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 03-27 | 0110 | 0.67        | --        | 05-04 | 0100 | 0.67        | --        |
| 03-27 | 0115 | 0.72        | .52       | 05-04 | 0115 | 0.81        | .98       |
| 03-27 | 0130 | 0.77        | .76       | 05-04 | 0130 | 0.90        | 1.6       |
| 03-27 | 0145 | 0.79        | .87       | 05-04 | 0145 | 0.91        | 1.6       |
| 03-27 | 0200 | 0.80        | .93       | 05-04 | 0200 | 0.91        | 1.6       |
| 03-27 | 0215 | 0.81        | .98       | 05-04 | 0215 | 0.89        | 1.5       |
| 03-27 | 0230 | 0.81        | .98       | 05-04 | 0230 | 0.88        | 1.4       |
| 03-27 | 0245 | 0.81        | .98       | 05-04 | 0245 | 0.86        | 1.3       |
| 03-27 | 0300 | 0.81        | .98       | 05-04 | 0300 | 0.84        | 1.2       |
| 03-27 | 0315 | 0.80        | .93       | 05-04 | 0315 | 0.83        | 1.1       |
| 03-27 | 0330 | 0.80        | .93       | 05-04 | 0330 | 0.81        | .98       |
| 03-27 | 0400 | 0.79        | .87       | 05-04 | 0345 | 0.80        | .93       |
| 03-27 | 0430 | 0.77        | .76       | 05-04 | 0400 | 0.79        | .87       |
| 03-27 | 0500 | 0.76        | .71       | 05-04 | 0430 | 0.76        | .71       |
| 03-27 | 0530 | 0.75        | .66       | 05-04 | 0500 | 0.75        | .66       |
| 03-27 | 0600 | 0.71        | .61       | 05-04 | 0530 | 0.73        | .56       |
| 03-27 | 0700 | 0.72        | .52       | 05-04 | 0600 | 0.71        | .47       |
| 03-27 | 0800 | 0.70        | .43       | 05-04 | 0630 | 0.70        | .43       |
| 03-27 | 0900 | 0.69        | .39       | 05-04 | 0700 | 0.69        | .39       |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

## GRAB SAMPLE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) |
|--------------|------|-----------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------|
| APR<br>29... | 1321 | .19                                                                   | 9.0                                            | 6.0                                                                  | 76                                                           | 16.0                                            | .100                                                                     |

| DATE         | TIME | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | SEDI-<br>MENT,<br>SUS-<br>PENDEDED<br>(MG/L)<br>(80154) |
|--------------|------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|
| APR<br>29... | 2.0  | 4.30                                                                           | .020                                                                     | .080                                                                     | .610                                                                     | 12                                                             | 1140                                                     |                                                         |

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDEDED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|---------------------------------------------------------|
| SEP   |      |                                                                       |                                                         |
| 27... | 0133 | .02                                                                   | 3860                                                    |
| 27... | 0150 | 2.2                                                                   | 1810                                                    |
| 27... | 0157 | 3.4                                                                   | 1210                                                    |
| 27... | 0202 | 4.2                                                                   | 1200                                                    |
| 27... | 0207 | 4.7                                                                   | 1250                                                    |
| 27... | 0211 | 5.0                                                                   | 1310                                                    |
| 27... | 0215 | 5.2                                                                   | 1220                                                    |
| 27... | 0218 | 5.2                                                                   | 1150                                                    |
| 27... | 0222 | 5.2                                                                   | 1080                                                    |
| 27... | 0226 | 5.6                                                                   | 1210                                                    |
| 27... | 0229 | 5.9                                                                   | 1120                                                    |
| 27... | 0233 | 6.1                                                                   | 930                                                     |
| 27... | 0236 | 6.1                                                                   | 939                                                     |
| 27... | 0239 | 6.1                                                                   | 866                                                     |
| 27... | 0242 | 5.9                                                                   | 849                                                     |
| 27... | 0246 | 5.8                                                                   | 846                                                     |
| 27... | 0249 | 5.7                                                                   | 794                                                     |
| 27... | 0253 | 5.6                                                                   | 762                                                     |
| 27... | 0256 | 5.6                                                                   | 758                                                     |
| 27... | 0300 | 5.4                                                                   | 743                                                     |
| 27... | 0304 | 5.2                                                                   | 748                                                     |
| 27... | 0308 | 5.1                                                                   | 729                                                     |
| 27... | 0312 | 4.9                                                                   | 684                                                     |
| 27... | 0316 | 4.7                                                                   | 675                                                     |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE         | TIME                                                           | ENDING<br>TIME                                                                 | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                      | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309)   | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |
|--------------|----------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------|
| NOV<br>01-01 | 1349                                                           | 2301                                                                           | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                                         | --                                                                           | --                                                                            | --                                                                   |
| NOV<br>07-07 | 1029                                                           | 1521                                                                           | .140                                                                     | 3.7                                                                           | 1.90                                                                     | .016                                                                     | .240                                                                     | .440                                                                       | --                                                                           | <.050                                                                         | <.0500                                                               |
| NOV<br>25-25 | 0149                                                           | 0356                                                                           | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                                         | --                                                                           | --                                                                            | --                                                                   |
| NOV<br>29-30 | 1857                                                           | 0917                                                                           | <.010                                                                    | 4.0                                                                           | 1.90                                                                     | .022                                                                     | .120                                                                     | 1.10                                                                       | --                                                                           | <.050                                                                         | <.0500                                                               |
| DEC<br>16-17 | 0705                                                           | 0011                                                                           | .014                                                                     | 2.2                                                                           | 1.80                                                                     | <.010                                                                    | .120                                                                     | .220                                                                       | --                                                                           | <.050                                                                         | <.0500                                                               |
| MAR<br>07-07 | 1507                                                           | 1509                                                                           | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                                         | --                                                                           | --                                                                            | --                                                                   |
| MAY<br>02-03 | 1539                                                           | 0130                                                                           | .450                                                                     | 11                                                                            | 7.30                                                                     | .013                                                                     | .050                                                                     | 1.10                                                                       | 5.1                                                                          | <.050                                                                         | <.0500                                                               |
| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3- (TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                | CYANA-<br>ZINE-<br>AMIDE<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(61709)  | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380)   | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| NOV<br>01-01 | --                                                             | --                                                                             | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                                         | --                                                                           | --                                                                            | --                                                                   |
| NOV<br>07-07 | <.050                                                          | .060                                                                           | <.050                                                                    | .180                                                                          | .320                                                                     | <.0500                                                                   | .200                                                                     | <.050                                                                      | .370                                                                         | 1.27                                                                          | .770                                                                 |
| NOV<br>25-25 | --                                                             | --                                                                             | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                                         | --                                                                           | --                                                                            | --                                                                   |
| NOV<br>29-30 | <.050                                                          | <.050                                                                          | <.050                                                                    | .0600                                                                         | .280                                                                     | <.0500                                                                   | .0900                                                                    | <.050                                                                      | .310                                                                         | .890                                                                          | .480                                                                 |
| DEC<br>16-17 | <.050                                                          | <.050                                                                          | <.050                                                                    | <.0500                                                                        | .160                                                                     | <.0500                                                                   | .100                                                                     | <.050                                                                      | .130                                                                         | .150                                                                          | .330                                                                 |
| MAR<br>07-07 | --                                                             | --                                                                             | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                                         | --                                                                           | --                                                                            | --                                                                   |
| MAY<br>02-03 | <.050                                                          | .140                                                                           | .070                                                                     | <.0500                                                                        | <.050                                                                    | <.0500                                                                   | <.0500                                                                   | <.050                                                                      | .690                                                                         | <.050                                                                         | 20.6                                                                 |
| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>SENSOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)             | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)              | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)               | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)           | PROP-<br>ANIL<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50377)             | PROP-<br>AZINE<br>WATER<br>DISS,<br>REC<br>(UG/L)<br>(38535)             | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)              | TRI-<br>FLURO-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)        | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>DISS,<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDEED<br>(MG/L)<br>(80154)               |
| NOV<br>01-01 | --                                                             | --                                                                             | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                                         | --                                                                           | --                                                                            | 626                                                                  |
| NOV<br>07-07 | <.050                                                          | <.050                                                                          | <.050                                                                    | .850                                                                          | <.0500                                                                   | .170                                                                     | <.050                                                                    | <.0500                                                                     | <.05                                                                         | <.050                                                                         | 1180                                                                 |
| NOV<br>25-25 | --                                                             | --                                                                             | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                                         | --                                                                           | --                                                                            | 1340                                                                 |
| NOV<br>29-30 | <.050                                                          | <.050                                                                          | <.050                                                                    | .590                                                                          | .180                                                                     | <.050                                                                    | <.050                                                                    | <.0500                                                                     | <.05                                                                         | <.050                                                                         | 1110                                                                 |
| DEC<br>16-17 | <.050                                                          | <.050                                                                          | <.050                                                                    | .120                                                                          | .0800                                                                    | <.050                                                                    | <.050                                                                    | <.0500                                                                     | <.05                                                                         | <.050                                                                         | --                                                                   |
| MAR<br>07-07 | --                                                             | --                                                                             | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                                         | --                                                                           | --                                                                            | 509                                                                  |
| MAY<br>02-03 | <.050                                                          | <.050                                                                          | <.050                                                                    | <.050                                                                         | <.0500                                                                   | <.050                                                                    | <.050                                                                    | <.0500                                                                     | <.05                                                                         | <.050                                                                         | 4450                                                                 |

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDEED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------|
| OCT   |      |                                                                       |                                                        |
| 25... | 2319 | .05                                                                   | 897                                                    |
| 26... | 0059 | .79                                                                   | 486                                                    |
| 26... | 0156 | .91                                                                   | 380                                                    |
| 26... | 0242 | 1.4                                                                   | 389                                                    |
| 26... | 0309 | 2.6                                                                   | 532                                                    |
| 26... | 0325 | 3.3                                                                   | 569                                                    |
| 26... | 0340 | 3.5                                                                   | 598                                                    |
| 26... | 0354 | 3.4                                                                   | 517                                                    |
| 26... | 0416 | 3.0                                                                   | 519                                                    |
| 26... | 0427 | 2.7                                                                   | 508                                                    |
| 26... | 0447 | 2.3                                                                   | 512                                                    |
| 26... | 0511 | 1.8                                                                   | 471                                                    |
| 26... | 0545 | 1.2                                                                   | 423                                                    |
| 26... | 0644 | .55                                                                   | 356                                                    |
| 26... | 0955 | .08                                                                   | 254                                                    |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| NOV   |      |                                                                       |                                                       |
| 01... | 1349 | .10                                                                   | 863                                                   |
| 01... | 1429 | 1.5                                                                   | 980                                                   |
| 01... | 1457 | 2.2                                                                   | 789                                                   |
| 01... | 1518 | 2.6                                                                   | 699                                                   |
| 01... | 1537 | 2.7                                                                   | 640                                                   |
| 01... | 1555 | 2.7                                                                   | 568                                                   |
| 01... | 1614 | 2.6                                                                   | 541                                                   |
| 01... | 1634 | 2.5                                                                   | 511                                                   |
| 01... | 1655 | 2.2                                                                   | 470                                                   |
| 01... | 1720 | 1.8                                                                   | 424                                                   |
| 01... | 1752 | 1.4                                                                   | 371                                                   |
| 01... | 1837 | .82                                                                   | 330                                                   |
| 01... | 1953 | .62                                                                   | 476                                                   |
| 01... | 2205 | .16                                                                   | 284                                                   |
| 01... | 2258 | .08                                                                   | 262                                                   |
| 01... | 2301 | .08                                                                   | 261                                                   |
| 07... | 1029 | .08                                                                   | 3270                                                  |
| 07... | 1056 | 2.3                                                                   | 2650                                                  |
| 07... | 1116 | 2.8                                                                   | 2010                                                  |
| 07... | 1133 | 3.0                                                                   | 1500                                                  |
| 07... | 1150 | 2.9                                                                   | 1160                                                  |
| 07... | 1207 | 3.0                                                                   | 911                                                   |
| 07... | 1223 | 2.9                                                                   | 784                                                   |
| 07... | 1241 | 2.7                                                                   | 681                                                   |
| 07... | 1301 | 2.5                                                                   | 607                                                   |
| 07... | 1323 | 2.1                                                                   | 577                                                   |
| 07... | 1349 | 1.7                                                                   | 547                                                   |
| 07... | 1449 | .88                                                                   | 579                                                   |
| 07... | 1521 | .60                                                                   | 425                                                   |
| 25... | 0149 | .22                                                                   | 2260                                                  |
| 25... | 0226 | 1.2                                                                   | 2250                                                  |
| 25... | 0306 | 1.2                                                                   | 1210                                                  |
| 25... | 0356 | .74                                                                   | 878                                                   |
| 29... | 1857 | .18                                                                   | 539                                                   |
| 29... | 2121 | .26                                                                   | 412                                                   |
| 29... | 2203 | .18                                                                   | 364                                                   |
| 30... | 0100 | .18                                                                   | 279                                                   |
| 30... | 0358 | .23                                                                   | 288                                                   |
| 30... | 0511 | 1.5                                                                   | 1020                                                  |
| 30... | 0541 | 1.9                                                                   | 1030                                                  |
| 30... | 0605 | 2.2                                                                   | 813                                                   |
| 30... | 0627 | 2.5                                                                   | 727                                                   |
| 30... | 0646 | 3.2                                                                   | 2220                                                  |
| 30... | 0659 | 4.3                                                                   | 1070                                                  |
| 30... | 0709 | 4.7                                                                   | 1290                                                  |
| 30... | 0720 | 5.1                                                                   | 1420                                                  |
| 30... | 0730 | 5.2                                                                   | 1560                                                  |
| 30... | 0739 | 5.3                                                                   | 1350                                                  |
| 30... | 0748 | 5.3                                                                   | 1290                                                  |
| 30... | 0758 | 5.1                                                                   | 1280                                                  |
| 30... | 0808 | 5.0                                                                   | 1260                                                  |
| 30... | 0818 | 4.8                                                                   | 1240                                                  |
| 30... | 0829 | 4.5                                                                   | 1220                                                  |
| 30... | 0840 | 4.4                                                                   | 1090                                                  |
| 30... | 0851 | 4.3                                                                   | 956                                                   |
| 30... | 0904 | 3.9                                                                   | 839                                                   |
| 30... | 0917 | 3.5                                                                   | 727                                                   |
| DEC   |      |                                                                       |                                                       |
| 26... | 1240 | .18                                                                   | 1500                                                  |
| 26... | 1326 | .85                                                                   | 1140                                                  |
| 26... | 1416 | 1.4                                                                   | 1050                                                  |
| 26... | 1505 | 1.2                                                                   | 868                                                   |
| 26... | 1601 | .54                                                                   | 675                                                   |
| 26... | 1708 | .20                                                                   | 592                                                   |
| 26... | 1814 | .58                                                                   | 684                                                   |
| 26... | 1907 | 1.2                                                                   | 778                                                   |
| 26... | 1955 | 1.5                                                                   | 752                                                   |
| 26... | 2037 | 2.2                                                                   | 1040                                                  |
| 26... | 2137 | 1.8                                                                   | 1030                                                  |
| 26... | 2201 | 1.5                                                                   | 837                                                   |
| 26... | 2247 | 1.5                                                                   | 1210                                                  |
| 26... | 2335 | 1.2                                                                   | 1610                                                  |
| 27... | 0028 | .63                                                                   | 1120                                                  |
| 27... | 0134 | .18                                                                   | 851                                                   |
| 29... | 0531 | .18                                                                   | 3190                                                  |
| 29... | 0622 | 1.2                                                                   | 3440                                                  |
| 29... | 0655 | 5.0                                                                   | 3560                                                  |
| 29... | 0720 | 5.4                                                                   | 3160                                                  |
| 29... | 0746 | 4.5                                                                   | 2660                                                  |
| 29... | 0817 | 3.0                                                                   | 2040                                                  |
| 29... | 0856 | 1.7                                                                   | 1460                                                  |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| FEB   |      |                                                                       |                                                       |
| 07... | 1323 | E2.7                                                                  | 3780                                                  |
| 07... | 1403 | E3.4                                                                  | 1740                                                  |
| 07... | 1442 | E4.0                                                                  | 1300                                                  |
| 07... | 1517 | E4.6                                                                  | 1150                                                  |
| 07... | 1549 | E4.7                                                                  | 1220                                                  |
| 07... | 1618 | E3.3                                                                  | 1270                                                  |
| 07... | 1644 | E2.3                                                                  | 1190                                                  |
| 07... | 1712 | E1.7                                                                  | 1020                                                  |
| 07... | 1747 | E1.1                                                                  | 863                                                   |
| 07... | 1828 | E.73                                                                  | 711                                                   |
| 07... | 1919 | E.41                                                                  | 553                                                   |
| 07... | 2015 | E.31                                                                  | 485                                                   |
| 07... | 2119 | E.20                                                                  | 470                                                   |
| 07... | 2153 | E.15                                                                  | 471                                                   |
| 07... | 2154 | E.15                                                                  | 451                                                   |
| 07... | 2210 | E.15                                                                  | 456                                                   |
| 07... | 2212 | E.15                                                                  | 434                                                   |
| 07... | 2214 | E.13                                                                  | 457                                                   |
| 07... | 2215 | E.13                                                                  | 437                                                   |
| 07... | 2217 | E.13                                                                  | 457                                                   |
| 07... | 2218 | E.13                                                                  | 445                                                   |
| 07... | 2219 | E.13                                                                  | 436                                                   |
| 07... | 2220 | E.13                                                                  | 441                                                   |
| 07... | 2223 | E.13                                                                  | 453                                                   |
| 12... | 1711 | --                                                                    | 492                                                   |
| 12... | 1712 | --                                                                    | 455                                                   |
| 12... | 1905 | --                                                                    | 368                                                   |
| 12... | 1906 | --                                                                    | 353                                                   |
| 12... | 1907 | --                                                                    | 350                                                   |
| 12... | 2004 | --                                                                    | 324                                                   |
| 12... | 2107 | --                                                                    | 446                                                   |
| 12... | 2108 | --                                                                    | 451                                                   |
| 12... | 2111 | --                                                                    | 487                                                   |
| 12... | 2251 | --                                                                    | 1170                                                  |
| 13... | 0007 | --                                                                    | 1060                                                  |
| 13... | 0126 | --                                                                    | 1150                                                  |
| 13... | 0255 | --                                                                    | 866                                                   |
| 13... | 0437 | --                                                                    | 874                                                   |
| 13... | 0612 | --                                                                    | 490                                                   |
| 13... | 0812 | --                                                                    | 662                                                   |
| 13... | 0938 | --                                                                    | 386                                                   |
| 13... | 1126 | --                                                                    | 289                                                   |
| 13... | 1127 | --                                                                    | 288                                                   |
| 13... | 1128 | --                                                                    | 283                                                   |
| 13... | 1130 | --                                                                    | 286                                                   |
| 13... | 1131 | --                                                                    | 275                                                   |
| 13... | 1132 | --                                                                    | 290                                                   |
| 13... | 1133 | --                                                                    | 294                                                   |
| 26... | 2109 | E.87                                                                  | 17400                                                 |
| 26... | 2218 | E3.2                                                                  | 1300                                                  |
| 26... | 2357 | E.87                                                                  | 634                                                   |
| 27... | 0011 | E.66                                                                  | 610                                                   |
| 27... | 0027 | E.52                                                                  | 608                                                   |
| 27... | 0030 | E.47                                                                  | 600                                                   |
| 27... | 0121 | --                                                                    | 518                                                   |
| 27... | 0124 | --                                                                    | 521                                                   |
| 27... | 0127 | --                                                                    | 517                                                   |
| 27... | 0129 | --                                                                    | 537                                                   |
| 27... | 0133 | --                                                                    | 496                                                   |
| 27... | 0136 | --                                                                    | 492                                                   |
| 27... | 0157 | --                                                                    | 484                                                   |
| 27... | 0200 | --                                                                    | 484                                                   |
| 27... | 0206 | --                                                                    | 482                                                   |
| 27... | 0208 | --                                                                    | 478                                                   |
| 27... | 0211 | --                                                                    | 477                                                   |
| 27... | 0214 | --                                                                    | 464                                                   |
| 27... | 0217 | --                                                                    | 464                                                   |
| 27... | 0220 | --                                                                    | 461                                                   |
| 27... | 0223 | --                                                                    | 428                                                   |
| 27... | 0226 | --                                                                    | 431                                                   |
| 27... | 0230 | --                                                                    | 439                                                   |
| 27... | 0232 | --                                                                    | 454                                                   |
| MAR   |      |                                                                       |                                                       |
| 13... | 2128 | --                                                                    | 2030                                                  |
| 13... | 2130 | --                                                                    | 2150                                                  |
| 13... | 2140 | --                                                                    | 1650                                                  |
| 13... | 2142 | --                                                                    | 1780                                                  |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | FLUO-<br>METURON<br>WAT FLT<br>REC<br>IMMUNO,<br>UNADJ<br>(UG/L)<br>(99773) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------|
| MAY   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                      |
| 02... | 1535 | .71                                                                   | .300                                                                     | 11                                                                            | 17.0                                                                     | .060                                                                     | .080                                                                     | 3.00                                                  | 30.8                                                                        | 3820                                                 |
| 02... | 1613 | 8.5                                                                   | .410                                                                     | 20                                                                            | 3.70                                                                     | .014                                                                     | .080                                                                     | 1.10                                                  | 20.1                                                                        | 6810                                                 |
| 02... | 1654 | 5.0                                                                   | .440                                                                     | 13                                                                            | 5.20                                                                     | <.010                                                                    | .090                                                                     | 1.20                                                  | 17.9                                                                        | 4210                                                 |
| 02... | 1802 | 2.5                                                                   | .640                                                                     | 7.7                                                                           | 12.0                                                                     | .014                                                                     | .100                                                                     | 1.40                                                  | 28.9                                                                        | 2250                                                 |
| 02... | 1916 | 3.8                                                                   | .650                                                                     | 12                                                                            | 10.0                                                                     | .016                                                                     | .040                                                                     | 1.60                                                  | 17.1                                                                        | 4210                                                 |
| 02... | 1958 | 15                                                                    | .500                                                                     | 14                                                                            | 5.40                                                                     | .014                                                                     | .050                                                                     | 1.90                                                  | 9.08                                                                        | 6140                                                 |
| 02... | 2020 | 11                                                                    | .380                                                                     | 15                                                                            | 3.40                                                                     | .012                                                                     | .080                                                                     | 2.50                                                  | 8.08                                                                        | 6120                                                 |
| 02... | 2056 | 5.4                                                                   | .380                                                                     | 12                                                                            | 3.80                                                                     | .010                                                                     | .090                                                                     | 1.50                                                  | 12.8                                                                        | 4130                                                 |
| 02... | 2206 | 1.7                                                                   | .400                                                                     | 9.0                                                                           | 4.70                                                                     | .010                                                                     | .080                                                                     | 1.80                                                  | 14.4                                                                        | 2860                                                 |
| 03... | 0025 | .98                                                                   | .620                                                                     | 11                                                                            | 13.0                                                                     | .025                                                                     | .050                                                                     | 1.80                                                  | 23.8                                                                        | 3460                                                 |
| 03... | 0124 | .66                                                                   | .630                                                                     | 7.4                                                                           | 15.0                                                                     | .028                                                                     | .050                                                                     | 1.60                                                  | 27.5                                                                        | 2100                                                 |
| 03... | 0127 | .71                                                                   | .720                                                                     | 4.5                                                                           | 23.0                                                                     | .047                                                                     | .080                                                                     | 1.10                                                  | 51.0                                                                        | 1990                                                 |
| 03... | 0129 | .66                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1940                                                 |
| 03... | 0240 | .35                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 987                                                  |
| 03... | 0242 | .35                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 940                                                  |
| 28... | 0322 | .82                                                                   | .140                                                                     | 3.0                                                                           | 14.0                                                                     | .028                                                                     | .090                                                                     | .880                                                  | 6.90                                                                        | 688                                                  |
| 28... | 0346 | .35                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 644                                                  |
| JUN   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                      |
| 09... | 1606 | 1.3                                                                   | .220                                                                     | 28                                                                            | 5.90                                                                     | .058                                                                     | .060                                                                     | .820                                                  | 8.10                                                                        | 20700                                                |
| 09... | 1631 | 26                                                                    | .042                                                                     | 14                                                                            | 2.50                                                                     | .030                                                                     | .070                                                                     | .520                                                  | 8.50                                                                        | 7680                                                 |
| 09... | 1649 | 26                                                                    | .024                                                                     | 1.3                                                                           | 2.00                                                                     | .025                                                                     | .100                                                                     | .460                                                  | 5.21                                                                        | --                                                   |
| 09... | 1707 | 22                                                                    | .030                                                                     | 9.7                                                                           | 1.80                                                                     | .015                                                                     | .120                                                                     | .540                                                  | 8.44                                                                        | --                                                   |
| 09... | 1725 | 18                                                                    | .020                                                                     | 9.0                                                                           | 1.70                                                                     | .024                                                                     | .130                                                                     | .510                                                  | 7.10                                                                        | --                                                   |
| 09... | 1743 | 16                                                                    | .056                                                                     | 7.9                                                                           | 1.60                                                                     | .020                                                                     | .120                                                                     | .560                                                  | 5.95                                                                        | --                                                   |
| 09... | 1804 | 12                                                                    | .024                                                                     | 7.9                                                                           | 1.50                                                                     | .020                                                                     | .150                                                                     | 1.50                                                  | 4.79                                                                        | --                                                   |
| 09... | 1835 | 6.8                                                                   | <.010                                                                    | 6.2                                                                           | 1.40                                                                     | .016                                                                     | .140                                                                     | 1.60                                                  | 5.96                                                                        | --                                                   |
| 09... | 1924 | 4.0                                                                   | .029                                                                     | 4.6                                                                           | 1.30                                                                     | .020                                                                     | .160                                                                     | 1.20                                                  | 5.22                                                                        | --                                                   |
| 09... | 2042 | 2.0                                                                   | .048                                                                     | 4.6                                                                           | 1.50                                                                     | .022                                                                     | .140                                                                     | .900                                                  | 4.77                                                                        | --                                                   |
| 09... | 2221 | 1.3                                                                   | .054                                                                     | 5.7                                                                           | 2.50                                                                     | .026                                                                     | .120                                                                     | .830                                                  | 4.73                                                                        | --                                                   |
| 10... | 0020 | .66                                                                   | .130                                                                     | 5.5                                                                           | 9.30                                                                     | .038                                                                     | .070                                                                     | .820                                                  | 1.40                                                                        | --                                                   |
| 10... | 0103 | .66                                                                   | .110                                                                     | 3.4                                                                           | 6.50                                                                     | .030                                                                     | .090                                                                     | .750                                                  | 6.99                                                                        | --                                                   |
| 10... | 1734 | .71                                                                   | .072                                                                     | 22                                                                            | 6.10                                                                     | .030                                                                     | .050                                                                     | 5.50                                                  | 6.70                                                                        | 15700                                                |
| 10... | 1812 | 6.1                                                                   | .064                                                                     | 13                                                                            | 1.40                                                                     | .017                                                                     | .070                                                                     | 1.80                                                  | 2.15                                                                        | 6660                                                 |
| 10... | 1907 | 3.3                                                                   | .018                                                                     | 7.3                                                                           | .680                                                                     | .016                                                                     | .140                                                                     | 1.60                                                  | 2.32                                                                        | 3580                                                 |
| 10... | 2042 | 1.2                                                                   | .020                                                                     | 4.4                                                                           | .670                                                                     | .014                                                                     | .170                                                                     | 1.30                                                  | 2.00                                                                        | 2170                                                 |
| 10... | 2117 | .66                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1840                                                 |
| 11... | 0458 | .71                                                                   | .042                                                                     | 14                                                                            | 1.20                                                                     | .022                                                                     | .100                                                                     | 1.70                                                  | 3.80                                                                        | 9440                                                 |
| 11... | 0551 | 3.3                                                                   | .020                                                                     | 4.4                                                                           | .920                                                                     | .018                                                                     | .090                                                                     | 1.30                                                  | 2.37                                                                        | 5450                                                 |
| 11... | 0640 | 5.2                                                                   | .180                                                                     | 6.5                                                                           | .760                                                                     | .018                                                                     | .160                                                                     | 1.70                                                  | 1.80                                                                        | 2830                                                 |
| 11... | 0744 | 2.8                                                                   | .012                                                                     | 4.4                                                                           | .680                                                                     | .014                                                                     | .110                                                                     | 1.10                                                  | 1.24                                                                        | 2120                                                 |
| 11... | 0931 | .66                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1160                                                 |
| JUL   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                      |
| 08... | 1902 | .66                                                                   | .200                                                                     | 3.5                                                                           | 1.10                                                                     | .022                                                                     | .150                                                                     | .580                                                  | 22.7                                                                        | 3000                                                 |
| 08... | 2012 | .66                                                                   | .290                                                                     | 4.6                                                                           | 1.10                                                                     | .028                                                                     | .210                                                                     | 1.10                                                  | 17.6                                                                        | 1190                                                 |
| 08... | 2024 | .52                                                                   | .310                                                                     | 3.8                                                                           | 1.10                                                                     | .028                                                                     | .190                                                                     | .770                                                  | 25.1                                                                        | 1070                                                 |
| 08... | 2027 | .52                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1060                                                 |
| 13... | 1600 | .66                                                                   | .130                                                                     | 5.0                                                                           | 1.10                                                                     | .022                                                                     | .120                                                                     | .320                                                  | 9.47                                                                        | 1700                                                 |
| 13... | 1619 | .66                                                                   | .130                                                                     | 4.0                                                                           | 1.20                                                                     | .025                                                                     | .150                                                                     | .380                                                  | --                                                                          | 1230                                                 |
| AUG   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                      |
| 09... | 0938 | .66                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | 3.45                                                                        | 1130                                                 |
| 09... | 1000 | .66                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | 3.28                                                                        | 798                                                  |
| 11... | 1826 | .71                                                                   | .040                                                                     | 3.3                                                                           | .790                                                                     | .024                                                                     | .180                                                                     | .880                                                  | 3.36                                                                        | 3020                                                 |
| 11... | 1856 | 6.4                                                                   | .084                                                                     | 5.2                                                                           | 1.00                                                                     | .025                                                                     | .150                                                                     | .380                                                  | 4.05                                                                        | 1950                                                 |
| 11... | 1932 | 4.5                                                                   | .960                                                                     | 10                                                                            | 3.60                                                                     | .060                                                                     | .700                                                                     | 1.90                                                  | 24.0                                                                        | 1240                                                 |
| 11... | 2027 | 2.0                                                                   | .380                                                                     | 3.5                                                                           | 1.20                                                                     | .062                                                                     | .480                                                                     | 1.80                                                  | 6.62                                                                        | 717                                                  |
| 11... | 2126 | .66                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 488                                                  |
| 14... | 1643 | .71                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 4580                                                 |
| 14... | 1822 | .71                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1040                                                 |
| 14... | 1834 | .61                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 579                                                  |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

DISCRETE SAMPLE SUPPLEMENTAL DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE  | TIME  | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)  | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) |                                                                                |  |
|-------|-------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|--|
|       |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                             |                                                                                |  |
|       |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                             |                                                                                |  |
| MAY   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                             |                                                                                |  |
| 28... | 0322  | <.050                                                                       | <.0500                                                               | <.050                                                          | .150                                                                          | .110                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .390                                                                        |                                                                                |  |
| JUN   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                             |                                                                                |  |
| 09... | 1606  | <.050                                                                       | <.0500                                                               | <.050                                                          | .350                                                                          | .060                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 1.76                                                                        |                                                                                |  |
| 09... | 1649  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | .0700                                                                      | <.050                                                                     | .520                                                                        |                                                                                |  |
| 09... | 2221  | <.050                                                                       | <.0500                                                               | <.050                                                          | .070                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .140                                                                        |                                                                                |  |
| 10... | 0020  | <.050                                                                       | <.0500                                                               | <.050                                                          | .070                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 2.38                                                                        |                                                                                |  |
| 10... | 0103  | <.050                                                                       | <.0500                                                               | <.050                                                          | .090                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 1.94                                                                        |                                                                                |  |
| 10... | 1734  | <.050                                                                       | <.0500                                                               | <.050                                                          | .050                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .780                                                                        |                                                                                |  |
| 11... | 0551  | <.050                                                                       | <.0500                                                               | <.050                                                          | .050                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .820                                                                        |                                                                                |  |
| 11... | 0744  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .330                                                                        |                                                                                |  |
| JUL   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                             |                                                                                |  |
| 08... | 1902  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                         | <.050                                                         | 80.1                                                            | 3.92                                                                   | <.0500                                                                   | 1.05                                                                       | <.050                                                                     | <.050                                                                       |                                                                                |  |
| 08... | 2024  | 1.62                                                                        | <.0500                                                               | <.050                                                          | <.050                                                                         | <.050                                                         | 414                                                             | 4.00                                                                   | <.0500                                                                   | 1.28                                                                       | <.050                                                                     | <.050                                                                       |                                                                                |  |
| 13... | 1600  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                         | <.050                                                         | 220                                                             | 19.0                                                                   | <.0500                                                                   | 1.40                                                                       | <.050                                                                     | 1.08                                                                        |                                                                                |  |
| DATE  |       | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)                      | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)   | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)         | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)        | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) |  |
|       |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                             |                                                                                |  |
|       |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                             |                                                                                |  |
| MAY   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                             |                                                                                |  |
| 28... | 1.06  | 7.14                                                                        | .160                                                                 | <.050                                                          | <.050                                                                         | .500                                                          | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | .150                                                                        |                                                                                |  |
| JUN   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                             |                                                                                |  |
| 09... | .290  | 5.06                                                                        | .060                                                                 | .050                                                           | .120                                                                          | .300                                                          | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |  |
| 09... | <.050 | 3.09                                                                        | <.050                                                                | <.050                                                          | .090                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |  |
| 09... | .210  | 1.98                                                                        | <.050                                                                | <.050                                                          | .050                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |  |
| 10... | .930  | 4.79                                                                        | .050                                                                 | <.050                                                          | .060                                                                          | .420                                                          | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |  |
| 10... | .850  | 3.69                                                                        | .050                                                                 | <.050                                                          | <.050                                                                         | .350                                                          | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |  |
| 10... | <.050 | 3.10                                                                        | <.050                                                                | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |  |
| 11... | .130  | 1.15                                                                        | <.050                                                                | <.050                                                          | .060                                                                          | .080                                                          | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |  |
| 11... | <.050 | .670                                                                        | <.050                                                                | <.050                                                          | .090                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |  |
| JUL   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                             |                                                                                |  |
| 08... | 1.09  | 1.76                                                                        | <.050                                                                | <.050                                                          | .080                                                                          | .390                                                          | .100                                                            | <.050                                                                  | <.050                                                                    | .480                                                                       | <.05                                                                      | <.050                                                                       |                                                                                |  |
| 08... | 1.10  | 1.21                                                                        | <.050                                                                | <.050                                                          | .060                                                                          | .350                                                          | .120                                                            | <.050                                                                  | <.050                                                                    | .700                                                                       | <.05                                                                      | <.050                                                                       |                                                                                |  |
| 13... | .400  | 1.20                                                                        | <.050                                                                | <.050                                                          | .050                                                                          | .220                                                          | .140                                                            | <.050                                                                  | <.050                                                                    | .430                                                                       | <.05                                                                      | <.050                                                                       |                                                                                |  |

## 0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|--------------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| FEB<br>26... | 1450 | 1.1                                                                   | 3130                                                  |

[illegible]

## 0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

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WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued  
0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued  
DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| OCT   |      |                                                                       |                                                       |
| 23... | 2357 | .76                                                                   | 378                                                   |
| 24... | 0101 | 2.1                                                                   | 414                                                   |
| 24... | 0228 | .71                                                                   | 342                                                   |
| 24... | 0236 | .61                                                                   | 332                                                   |
| 25... | 2305 | .71                                                                   | 1260                                                  |
| 26... | 0022 | 1.8                                                                   | 803                                                   |
| 31... | 0944 | .66                                                                   | 2780                                                  |
| 31... | 1035 | 3.5                                                                   | 1700                                                  |
| 31... | 1151 | .82                                                                   | 1280                                                  |
| 31... | 1159 | .66                                                                   | 942                                                   |
| NOV   |      |                                                                       |                                                       |
| 28... | 2106 | .66                                                                   | 1390                                                  |
| 28... | 2219 | 2.4                                                                   | 1110                                                  |
| 28... | 2320 | 3.0                                                                   | 903                                                   |
| 29... | 0014 | 3.8                                                                   | 918                                                   |
| 29... | 0101 | 4.1                                                                   | 1050                                                  |
| 29... | 0150 | 3.0                                                                   | 3000                                                  |
| 29... | 0310 | .87                                                                   | 752                                                   |
| 29... | 0358 | .52                                                                   | 725                                                   |
| DEC   |      |                                                                       |                                                       |
| 03... | 0625 | .66                                                                   | 664                                                   |
| 03... | 0707 | .66                                                                   | 470                                                   |
| 03... | 0710 | .66                                                                   | 464                                                   |
| 03... | 0718 | .66                                                                   | 442                                                   |
| 03... | 0721 | .66                                                                   | 445                                                   |
| 03... | 0858 | .71                                                                   | 441                                                   |
| 03... | 1041 | .66                                                                   | 383                                                   |
| 03... | 1354 | .35                                                                   | 275                                                   |
| 21... | 0619 | .66                                                                   | 844                                                   |
| 21... | 0715 | 4.7                                                                   | 1260                                                  |
| 21... | 0752 | 5.2                                                                   | 1390                                                  |
| 21... | 0837 | 2.9                                                                   | 1310                                                  |
| 21... | 1001 | .98                                                                   | 963                                                   |
| 21... | 1037 | .66                                                                   | 870                                                   |
| JAN   |      |                                                                       |                                                       |
| 06... | 0930 | .66                                                                   | 1200                                                  |
| 06... | 1051 | 1.1                                                                   | 665                                                   |
| 06... | 1207 | .66                                                                   | 453                                                   |
| 06... | 1337 | .61                                                                   | 354                                                   |
| 06... | 1351 | .61                                                                   | 348                                                   |
| 06... | 1404 | .66                                                                   | 349                                                   |
| 06... | 1407 | .66                                                                   | 347                                                   |
| 06... | 1410 | .66                                                                   | 355                                                   |
| 06... | 1434 | .71                                                                   | 369                                                   |
| 06... | 1608 | .93                                                                   | 345                                                   |
| 06... | 1700 | .66                                                                   | 288                                                   |
| 06... | 1702 | .66                                                                   | 288                                                   |
| 06... | 2153 | .66                                                                   | 369                                                   |
| 06... | 2325 | 1.8                                                                   | 406                                                   |
| 07... | 0049 | 1.1                                                                   | 317                                                   |
| 07... | 0149 | .66                                                                   | 269                                                   |
| 07... | 0458 | .66                                                                   | 650                                                   |
| 07... | 0635 | .82                                                                   | 492                                                   |
| 07... | 0711 | .66                                                                   | 393                                                   |
| 07... | 0752 | .56                                                                   | 321                                                   |
| 07... | 1914 | .66                                                                   | 261                                                   |
| 07... | 2040 | .66                                                                   | 238                                                   |
| 07... | 2052 | .66                                                                   | 225                                                   |
| 11... | 2353 | .52                                                                   | 510                                                   |
| 12... | 0004 | .66                                                                   | 563                                                   |
| 12... | 0122 | 1.7                                                                   | 567                                                   |
| 12... | 0242 | 1.7                                                                   | 614                                                   |
| 12... | 0420 | .76                                                                   | 455                                                   |
| 12... | 0433 | .66                                                                   | 435                                                   |
| 15... | 1419 | .71                                                                   | 1180                                                  |
| 15... | 1511 | 3.0                                                                   | 814                                                   |
| 15... | 1602 | 3.8                                                                   | 699                                                   |
| 15... | 1655 | 2.6                                                                   | 632                                                   |
| 15... | 1809 | 1.7                                                                   | 528                                                   |
| 15... | 1927 | 1.8                                                                   | 417                                                   |
| 15... | 2054 | 1.1                                                                   | 333                                                   |
| 21... | 1433 | .76                                                                   | 221                                                   |
| 21... | 1557 | .76                                                                   | 157                                                   |
| 21... | 1626 | .66                                                                   | 141                                                   |
| 21... | 1830 | .66                                                                   | 191                                                   |
| 21... | 1858 | .66                                                                   | 234                                                   |
| 21... | 1901 | .66                                                                   | 239                                                   |
| 21... | 2111 | .66                                                                   | 515                                                   |
| 21... | 2255 | 1.1                                                                   | 483                                                   |
| 22... | 0038 | .93                                                                   | 479                                                   |
| 22... | 0222 | 1.3                                                                   | 493                                                   |
| 22... | 0345 | 2.1                                                                   | 660                                                   |
| 22... | 0450 | 2.3                                                                   | 694                                                   |
| 22... | 0611 | 1.1                                                                   | 579                                                   |
| 22... | 0708 | .66                                                                   | 485                                                   |
| 26... | 1342 | 1.2                                                                   | 559                                                   |

## 0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

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## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

## DISCRETE SAMPLE SUPPLEMENTAL DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

|       |       | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)  | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) |                                                                                |
|-------|-------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| APR   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 28... | 0312  | .050                                                                        | <.0500                                                               | <.050                                                          | .050                                                                          | .110                                                          | <.0500                                                          | .350                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .760                                                                         |                                                                                |
| 28... | 0432  | .130                                                                        | <.0500                                                               | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                          | .490                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .650                                                                         |                                                                                |
| MAY   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 29... | 0206  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                         | 170                                                           | <.0500                                                          | <.050                                                                  | 7.78                                                                     | 6.86                                                                       | <.050                                                                     | <.050                                                                        |                                                                                |
| 29... | 0457  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                         | 124                                                           | <.0500                                                          | <.050                                                                  | 3.66                                                                     | 2.50                                                                       | <.050                                                                     | <.050                                                                        |                                                                                |
| 29... | 0817  | <.050                                                                       | <.0500                                                               | <.050                                                          | .050                                                                          | 113                                                           | <.0500                                                          | <.050                                                                  | 7.80                                                                     | 5.29                                                                       | <.050                                                                     | <.050                                                                        |                                                                                |
| 29... | 1054  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                         | 117                                                           | <.0500                                                          | <.050                                                                  | 9.64                                                                     | 2.75                                                                       | <.050                                                                     | .350                                                                         |                                                                                |
| JUN   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 05... | 1256  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                         | 88.0                                                          | <.0500                                                          | <.050                                                                  | 8.61                                                                     | 7.28                                                                       | <.050                                                                     | <.050                                                                        |                                                                                |
| 05... | 1337  | <.050                                                                       | <.0500                                                               | <.050                                                          | <.050                                                                         | 62.2                                                          | <.0500                                                          | <.050                                                                  | 3.65                                                                     | 2.42                                                                       | <.050                                                                     | <.050                                                                        |                                                                                |
| DATE  |       | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)            | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)   | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)         | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLURO-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)        | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) |
| APR   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 28... | 3.48  | .430                                                                        | 330                                                                  | <.050                                                          | <.050                                                                         | .710                                                          | .0700                                                           | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| 28... | 1.43  | <.050                                                                       | 338                                                                  | <.050                                                          | <.050                                                                         | .480                                                          | .0600                                                           | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| MAY   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 29... | <.050 | .100                                                                        | 51.3                                                                 | <.050                                                          | .060                                                                          | <.050                                                         | .0500                                                           | <.050                                                                  | <.050                                                                    | 1.67                                                                       | <.05                                                                      | <.050                                                                        |                                                                                |
| 29... | <.050 | <.050                                                                       | 22.9                                                                 | <.050                                                          | <.050                                                                         | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | .090                                                                         |                                                                                |
| 29... | <.050 | .100                                                                        | 23.3                                                                 | <.050                                                          | .060                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | 2.58                                                                     | .0900                                                                      | <.05                                                                      | <.050                                                                        |                                                                                |
| 29... | .140  | .110                                                                        | 26.4                                                                 | <.050                                                          | <.050                                                                         | .100                                                          | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |
| JUN   |       |                                                                             |                                                                      |                                                                |                                                                               |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |
| 05... | <.050 | .140                                                                        | 12.5                                                                 | <.050                                                          | .360                                                                          | <.050                                                         | <.0500                                                          | <.050                                                                  | 1.64                                                                     | .670                                                                       | <.05                                                                      | <.050                                                                        |                                                                                |
| 05... | <.050 | .230                                                                        | 30.5                                                                 | <.050                                                          | .420                                                                          | <.050                                                         | .0500                                                           | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

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## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

| DATE         | TIME                                                           | ENDING<br>TIME                                                                 | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                     | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                    | 3, 4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)      |  |
|--------------|----------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------|--|
|              |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                             |                                                                              |                                                                     |  |
|              |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                             |                                                                              |                                                                     |  |
| DEC<br>11-12 | 2052                                                           | 0531                                                                           | .046                                                                     | 1.1                                                                            | 14.0                                                                     | .012                                                                     | .040                                                                       | .240                                                                      | --                                                                          | <.050                                                                        | <.0500                                                              |  |
| DEC<br>21-22 | 2316                                                           | 0820                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                           | --                                                                  |  |
| JAN<br>08-08 | 0649                                                           | 1002                                                                           | .070                                                                     | 2.4                                                                            | 4.00                                                                     | .016                                                                     | .060                                                                       | .910                                                                      | --                                                                          | <.050                                                                        | --                                                                  |  |
| JAN<br>08-09 | 1740                                                           | 0237                                                                           | .066                                                                     | 5.2                                                                            | <.020                                                                    | <.010                                                                    | .070                                                                       | 1.90                                                                      | --                                                                          | <.050                                                                        | --                                                                  |  |
| JAN<br>22-22 | 0911                                                           | 1951                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                           | --                                                                  |  |
| JAN<br>29-29 | 0352                                                           | 1811                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                           | --                                                                  |  |
| FEB<br>27-27 | 1606                                                           | 1853                                                                           | .010                                                                     | 6.2                                                                            | .370                                                                     | <.010                                                                    | .090                                                                       | 2.50                                                                      | --                                                                          | <.050                                                                        | <.0500                                                              |  |
| MAR<br>13-13 | 0912                                                           | 1240                                                                           | .020                                                                     | 1.1                                                                            | .100                                                                     | <.010                                                                    | .060                                                                       | .310                                                                      | 8.9                                                                         | <.050                                                                        | <.0500                                                              |  |
| APR<br>05-06 | 2219                                                           | 0222                                                                           | <.010                                                                    | 3.4                                                                            | .200                                                                     | <.010                                                                    | .150                                                                       | 1.30                                                                      | 7.2                                                                         | <.050                                                                        | <.0500                                                              |  |
| MAY<br>04-04 | 1820                                                           | 2051                                                                           | .100                                                                     | 9.6                                                                            | .970                                                                     | .030                                                                     | .100                                                                       | 4.60                                                                      | 5.8                                                                         | <.050                                                                        | <.0500                                                              |  |
| MAY<br>05-05 | 1826                                                           | 2212                                                                           | .030                                                                     | 6.8                                                                            | .490                                                                     | .020                                                                     | .200                                                                       | 3.20                                                                      | 11                                                                          | <.050                                                                        | <.0500                                                              |  |
| MAY<br>31-31 | 0631                                                           | 0929                                                                           | 2.90                                                                     | 7.0                                                                            | 3.60                                                                     | .100                                                                     | .250                                                                       | 1.50                                                                      | 7.8                                                                         | <.050                                                                        | <.0500                                                              |  |
| JUN<br>02-02 | 0339                                                           | 0359                                                                           | 2.30                                                                     | 8.4                                                                            | 3.10                                                                     | .100                                                                     | .120                                                                       | 2.70                                                                      | --                                                                          | --                                                                           | --                                                                  |  |
| JUN<br>13-13 | 1504                                                           | 1729                                                                           | .800                                                                     | 10                                                                             | 2.70                                                                     | .050                                                                     | .210                                                                       | 4.00                                                                      | 9.8                                                                         | .150                                                                         | --                                                                  |  |
| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3- (TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)   | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380)  | FLUO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |  |
| DEC<br>11-12 | <.050                                                          | <.050                                                                          | .240                                                                     | <.0500                                                                         | <.050                                                                    | .0600                                                                    | .0700                                                                      | <.050                                                                     | .050                                                                        | <.050                                                                        | .050                                                                |  |
| DEC<br>21-22 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                           | --                                                                  |  |
| JAN<br>08-08 | <.050                                                          | <.050                                                                          | .180                                                                     | <.0500                                                                         | <.050                                                                    | .0600                                                                    | .190                                                                       | <.050                                                                     | <.050                                                                       | <.050                                                                        | <.050                                                               |  |
| JAN<br>08-09 | <.050                                                          | <.050                                                                          | .130                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | .0700                                                                      | <.050                                                                     | <.050                                                                       | <.050                                                                        | <.050                                                               |  |
| JAN<br>22-22 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                           | --                                                                  |  |
| JAN<br>29-29 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                           | --                                                                  |  |
| FEB<br>27-27 | <.050                                                          | <.050                                                                          | .190                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                       | <.050                                                                        | <.050                                                               |  |
| MAR<br>13-13 | <.050                                                          | <.050                                                                          | .060                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                       | <.050                                                                        | <.050                                                               |  |
| APR<br>05-06 | <.050                                                          | <.050                                                                          | .140                                                                     | <.0500                                                                         | <.050                                                                    | .0500                                                                    | .120                                                                       | <.050                                                                     | <.050                                                                       | .180                                                                         | <.050                                                               |  |
| MAY<br>04-04 | <.050                                                          | .630                                                                           | .360                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 15.21                                                                       | .190                                                                         | 107                                                                 |  |
| MAY<br>05-05 | <.050                                                          | .640                                                                           | .300                                                                     | .0700                                                                          | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 9.07                                                                        | .170                                                                         | 125                                                                 |  |
| MAY<br>31-31 | <.050                                                          | .200                                                                           | .230                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 7.50                                                                        | .120                                                                         | 15.1                                                                |  |
| JUN<br>02-02 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                           | --                                                                  |  |
| JUN<br>13-13 | <.050                                                          | <.050                                                                          | .250                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | .340                                                                       | .500                                                                      | 3.11                                                                        | .540                                                                         | 12.4                                                                |  |

## 0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(MG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|--------------|-----------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------|
|              |                                                           |                                                                    |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| DEC<br>11-12 | .570                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 205                                                  |
| DEC<br>21-22 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 678                                                  |
| JAN<br>08-08 | .730                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 904                                                  |
| JAN<br>08-09 | .380                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 2310                                                 |
| JAN<br>22-22 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1840                                                 |
| JAN<br>29-29 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 930                                                  |
| FEB<br>27-27 | .570                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 2800                                                 |
| MAR<br>13-13 | .100                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 559                                                  |
| APR<br>05-06 | .310                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1210                                                 |
| MAY<br>04-04 | .190                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | .320                                                                            | 3930                                                 |
| MAY<br>05-05 | .310                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | .330                                                                            | 2930                                                 |
| MAY<br>31-31 | .170                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | .24                                                                  | <.050                                                                           | 1240                                                 |
| JUN<br>02-02 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 2850                                                 |
| JUN<br>13-13 | .150                                                      | <.050                                                              | <.050                                                       | .120                                                            | 6.52                                                           | <.050                                                       | .050                                                        | <.0500                                                        | <.05                                                                 | .170                                                                            | 4580                                                 |

DISCRETE SAMPLE DATA. WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

[illegible]

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00665) | ATRA-<br>ZINE<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99775) | FLUO-<br>METURON<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99773) | METRI-<br>BUZIN<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99774) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------|
| JAN   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                                          |                                                                             |                                                                            |                                                      |
| 08... | 0641 | .26                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 750                                                  |
| 08... | 0706 | .51                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 754                                                  |
| 08... | 0729 | .63                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 860                                                  |
| 08... | 0752 | .68                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1000                                                 |
| 08... | 0815 | .63                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1010                                                 |
| 08... | 0838 | .63                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1030                                                 |
| 08... | 0947 | .63                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 894                                                  |
| 08... | 1011 | .58                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 873                                                  |
| 08... | 1144 | .58                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 768                                                  |
| 08... | 1326 | .45                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 736                                                  |
| 08... | 1510 | .34                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 665                                                  |
| 08... | 1604 | .30                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 602                                                  |
| 08... | 1741 | .63                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 3280                                                 |
| 08... | 1814 | 3.0                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2860                                                 |
| 08... | 1849 | 2.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2990                                                 |
| 08... | 1926 | 2.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2470                                                 |
| 08... | 2004 | 2.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2530                                                 |
| 08... | 2036 | 4.7                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2500                                                 |
| 08... | 2103 | 6.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2870                                                 |
| 08... | 2128 | 6.1                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2680                                                 |
| 08... | 2155 | 5.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2280                                                 |
| 08... | 2224 | 4.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1960                                                 |
| 08... | 2256 | 3.4                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1660                                                 |
| 08... | 2331 | 2.4                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1450                                                 |
| 09... | 0011 | 1.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1270                                                 |
| 09... | 0055 | 1.0                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1170                                                 |
| 09... | 0142 | .79                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1060                                                 |
| 09... | 0221 | .68                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 987                                                  |
| 09... | 0226 | .68                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 962                                                  |
| 09... | 0228 | .68                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 971                                                  |
| 09... | 0235 | .63                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 956                                                  |
| 22... | 0912 | .63                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 4610                                                 |
| 22... | 0944 | 2.0                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 3720                                                 |
| 22... | 1019 | 3.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 3550                                                 |
| 22... | 1052 | 3.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2830                                                 |
| 22... | 1123 | 4.7                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2250                                                 |
| 22... | 1153 | 4.1                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2420                                                 |
| 22... | 1225 | 3.4                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2080                                                 |
| 22... | 1259 | 3.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1830                                                 |
| 22... | 1337 | 1.9                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1600                                                 |
| 22... | 1418 | 1.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1340                                                 |
| 22... | 1501 | 1.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1180                                                 |
| 22... | 1544 | 1.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1030                                                 |
| 22... | 1625 | 1.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 973                                                  |
| 22... | 1706 | 1.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1040                                                 |
| 22... | 1748 | 1.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 860                                                  |
| 22... | 1833 | .98                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 722                                                  |
| 22... | 1920 | .79                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 639                                                  |
| 22... | 1946 | .68                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 608                                                  |
| 29... | 0353 | .68                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1250                                                 |
| 29... | 0439 | 1.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1490                                                 |
| 29... | 0516 | 2.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1510                                                 |
| 29... | 0553 | 2.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1470                                                 |
| 29... | 0630 | 2.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1120                                                 |
| 29... | 0707 | 2.0                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 946                                                  |
| 29... | 0830 | 1.9                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 654                                                  |
| 29... | 0910 | 1.8                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 570                                                  |
| 29... | 0950 | 1.8                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 525                                                  |
| 29... | 1029 | 2.4                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 532                                                  |
| 29... | 1104 | 3.1                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 757                                                  |
| 29... | 1143 | 3.8                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1020                                                 |
| 29... | 1215 | 4.0                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1050                                                 |
| 29... | 1245 | 4.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1050                                                 |
| 29... | 1315 | 4.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1030                                                 |
| 29... | 1345 | 4.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1000                                                 |
| 29... | 1414 | 4.7                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 990                                                  |
| 29... | 1443 | 4.8                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 960                                                  |
| 29... | 1512 | 4.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1010                                                 |
| 29... | 1544 | 3.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 905                                                  |
| 29... | 1620 | 2.4                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 849                                                  |
| 29... | 1659 | 1.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 749                                                  |
| 29... | 1741 | 1.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 662                                                  |
| FEB   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                                          |                                                                             |                                                                            |                                                      |
| 27... | 1608 | .63                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 5610                                                 |
| 27... | 1652 | 1.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 3450                                                 |
| 27... | 1736 | 1.1                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 2190                                                 |
| 27... | 1822 | .85                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1760                                                 |
| 27... | 1853 | .68                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 1570                                                 |
| MAR   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                                          |                                                                             |                                                                            |                                                      |
| 13... | 0913 | .93                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 591                                                  |
| 13... | 1135 | 1.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 450                                                  |
| 13... | 1223 | .93                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 390                                                  |
| APR   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                                          |                                                                             |                                                                            |                                                      |
| 05... | 2321 | .61                                                                   | <.010                                                                    | 5.5                                                                            | .560                                                                     | <.010                                                                    | .100                                                                     | 2.00                                                           | --                                                                       | <.05                                                                        | --                                                                         | 2810                                                 |
| 06... | 0135 | 2.2                                                                   | <.010                                                                    | 2.0                                                                            | .130                                                                     | <.010                                                                    | .210                                                                     | 1.10                                                           | --                                                                       | <.05                                                                        | --                                                                         | 801                                                  |
| 14... | 2112 | .87                                                                   | .010                                                                     | 5.3                                                                            | .310                                                                     | <.010                                                                    | E.090                                                                    | 2.40                                                           | .78                                                                      | <.05                                                                        | --                                                                         | 1590                                                 |
| 14... | 2326 | 1.6                                                                   | .020                                                                     | 2.0                                                                            | .060                                                                     | <.010                                                                    | E.260                                                                    | .940                                                           | .31                                                                      | <.05                                                                        | --                                                                         | 419                                                  |
| 15... | 0212 | .93                                                                   | .010                                                                     | 1.4                                                                            | .060                                                                     | <.010                                                                    | E.280                                                                    | .600                                                           | .33                                                                      | <.05                                                                        | --                                                                         | 200                                                  |
| 15... | 0215 | .93                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                                       | --                                                                          | --                                                                         | 192                                                  |
| 15... | 0640 | --                                                                    | .020                                                                     | 1.4                                                                            | .180                                                                     | <.010                                                                    | E.190                                                                    | .390                                                           | .27                                                                      | <.05                                                                        | --                                                                         | 123                                                  |
| 15... | 0845 | --                                                                    | .020                                                                     | 1.3                                                                            | .210                                                                     | <.010                                                                    | E.180                                                                    | .340                                                           | .26                                                                      | <.05                                                                        | --                                                                         | --                                                   |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

| DATE  | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND<br>(00061) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L)<br>(00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L)<br>(00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L)<br>(00631) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L)<br>(00613) | PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L)<br>(00671) | PHOS-PHORUS, DIS-SOLVED TOTAL (MG/L)<br>(00665) | ATRA-ZINE, WAT FLT REC IMMUNO. UNADJ (UG/L)<br>(99775) | FLUO-METURON, WAT FLT REC IMMUNO. UNADJ (UG/L)<br>(99773) | METRI-BUZIN, WAT FLT REC IMMUNO. UNADJ (UG/L)<br>(99774) | SEDI-MENT, SUS-PENDED (MG/L)<br>(80154) |
|-------|------|----------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| MAY   |      |                                                    |                                                 |                                                       |                                                 |                                                 |                                                  |                                                 |                                                        |                                                           |                                                          |                                         |
| 04... | 1924 | .66                                                | --                                              | --                                                    | --                                              | --                                              | --                                               | --                                              | --                                                     | --                                                        | --                                                       | 4560                                    |
| 05... | 1825 | .93                                                | .200                                            | 4.2                                                   | 1.30                                            | .040                                            | .100                                             | 1.60                                            | --                                                     | 162                                                       | --                                                       | 4010                                    |
| 05... | 1831 | .93                                                | .100                                            | 2.6                                                   | 1.30                                            | .040                                            | .070                                             | .880                                            | --                                                     | 252                                                       | --                                                       | 3850                                    |
| 05... | 1927 | 7.0                                                | .100                                            | 11                                                    | .730                                            | .030                                            | .090                                             | 4.70                                            | --                                                     | 48.3                                                      | --                                                       | 4630                                    |
| 05... | 2107 | 1.7                                                | .100                                            | 7.0                                                   | .960                                            | .030                                            | .150                                             | 7.90                                            | --                                                     | 36.5                                                      | --                                                       | 2750                                    |
| 31... | 0629 | .82                                                | 3.20                                            | 8.1                                                   | 3.30                                            | .200                                            | .210                                             | 2.20                                            | --                                                     | 20.7                                                      | --                                                       | 1830                                    |
| 31... | 0842 | 2.4                                                | 2.80                                            | 6.7                                                   | 3.40                                            | .100                                            | .210                                             | 1.40                                            | --                                                     | 12.6                                                      | --                                                       | 1240                                    |
| 31... | 1015 | .93                                                | 3.30                                            | 6.5                                                   | 6.40                                            | .200                                            | .210                                             | .930                                            | --                                                     | 16.7                                                      | --                                                       | 648                                     |
| JUN   |      |                                                    |                                                 |                                                       |                                                 |                                                 |                                                  |                                                 |                                                        |                                                           |                                                          |                                         |
| 02... | 0338 | .93                                                | 2.30                                            | 8.4                                                   | 3.50                                            | .100                                            | .110                                             | 3.00                                            | --                                                     | 23.1                                                      | --                                                       | 2860                                    |
| 02... | 0407 | .93                                                | 2.20                                            | 8.7                                                   | 2.50                                            | .080                                            | .160                                             | 2.70                                            | --                                                     | 16.8                                                      | --                                                       | 2560                                    |
| 13... | 1505 | .52                                                | .800                                            | 14                                                    | 2.90                                            | .050                                            | .210                                             | 5.60                                            | --                                                     | 12.3                                                      | --                                                       | 8230                                    |
| 13... | 1633 | 2.1                                                | .800                                            | 7.5                                                   | 2.40                                            | .050                                            | .270                                             | 3.20                                            | --                                                     | 10.0                                                      | --                                                       | 2790                                    |

## DISCRETE SAMPLE SUPPLEMENTAL DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

| DATE  | TIME | 3,4-DI-CHLORO-ANILINE WATER FLTRD REC<br>(50309) | ACETO-CHLOR, WATER FLTRD REC<br>(49260)                 | ALA-CHLOR, WATER, DISS, REC<br>(46342)        | ANILINE 3-(TRI-FLURO-METHYL) FLTRD REC<br>(50307) | ATRA-ZINE, WATER, DISS, REC<br>(39632)    | CYANA-ZINE, WATER, DISS, REC<br>(04041) | CYANA-ZINE, AMIDE, WATER, FLTRD REC<br>(61709) | DEETHYL, ZINE, WATER, DISS, REC<br>(04040) | DEISO-PROPYL, ATRAZIN, WATER, DISS, REC<br>(04038) | DEISO-PROPYL, METRYN, WATER, FLTRD REC<br>(50378) | DEMETH-YLFLURO-METURON, WATER, FLTRD REC<br>(50379) |
|-------|------|--------------------------------------------------|---------------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-------------------------------------------|-----------------------------------------|------------------------------------------------|--------------------------------------------|----------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| DEC   |      |                                                  |                                                         |                                               |                                                   |                                           |                                         |                                                |                                            |                                                    |                                                   |                                                     |
| 11... | 2126 | <.050                                            | <.0500                                                  | <.050                                         | <.050                                             | .210                                      | <.0500                                  | <.050                                          | <.0500                                     | .0600                                              | <.050                                             | <.050                                               |
| 11... | 2217 | <.050                                            | <.0500                                                  | <.050                                         | <.050                                             | .180                                      | <.0500                                  | <.050                                          | <.0500                                     | .130                                               | <.050                                             | .090                                                |
| 12... | 0023 | <.050                                            | <.0500                                                  | <.050                                         | <.050                                             | .150                                      | <.0500                                  | <.050                                          | <.0500                                     | .0700                                              | <.050                                             | <.050                                               |
| 12... | 0357 | <.050                                            | <.0500                                                  | <.050                                         | <.050                                             | .140                                      | <.0500                                  | <.050                                          | .0700                                      | .210                                               | <.050                                             | <.050                                               |
| MAY   |      |                                                  |                                                         |                                               |                                                   |                                           |                                         |                                                |                                            |                                                    |                                                   |                                                     |
| 05... | 1825 | <.050                                            | <.0500                                                  | <.050                                         | .450                                              | .500                                      | <.0500                                  | .060                                           | .110                                       | <.0500                                             | <.050                                             | 4.29                                                |
| 05... | 1831 | <.050                                            | <.0500                                                  | <.050                                         | .990                                              | .520                                      | <.0500                                  | <.050                                          | <.0500                                     | <.0500                                             | <.050                                             | 22.2                                                |
| 05... | 1927 | <.050                                            | <.0500                                                  | <.050                                         | <.050                                             | .360                                      | <.0500                                  | <.050                                          | <.0500                                     | <.0500                                             | <.050                                             | 1.99                                                |
| 31... | 0629 | <.050                                            | <.0500                                                  | <.050                                         | <.050                                             | .360                                      | <.0500                                  | <.050                                          | <.0500                                     | <.0500                                             | <.050                                             | 4.23                                                |
|       |      |                                                  |                                                         |                                               |                                                   |                                           |                                         |                                                |                                            |                                                    |                                                   |                                                     |
| DATE  |      | DEMETH-YLNORF-LURAZON WATER FLTRD REC<br>(50380) | FLUO-MET-URON, METO-LACHLOR, WATER FLTRD REC<br>(61710) | METRI-BUZIN, SENCOR, WATER DISSOLV<br>(39415) | MOLI-NATE, WATER FLTRD REC<br>(50375)             | NORFLU-RAZONE, WATER FLTRD REC<br>(50332) | PRO-METRYN, WATER, DISS, REC<br>(04036) | PROP-ANIL, WATER, FLTRD REC<br>(50377)         | PROP-AZINE, WATER, DISS, REC<br>(38535)    | SI-MAZINE, WATER, DISS, REC<br>(04035)             | TRI-FLUR-ALIN, WATER, DISS, REC<br>(38574)        | UREA, 3-TRI-FLURO-METHYL-PHENYL UNFLTRD<br>(50473)  |
| DEC   |      |                                                  |                                                         |                                               |                                                   |                                           |                                         |                                                |                                            |                                                    |                                                   |                                                     |
| 11... |      | <.050                                            | <.050                                                   | .520                                          | <.050                                             | <.050                                     | <.0500                                  | <.050                                          | <.050                                      | <.0500                                             | <.05                                              | <.050                                               |
| 11... |      | .330                                             | .050                                                    | .490                                          | <.050                                             | <.050                                     | <.0500                                  | <.050                                          | <.050                                      | <.0500                                             | <.05                                              | <.050                                               |
| 12... |      | <.050                                            | <.050                                                   | <.050                                         | <.050                                             | <.050                                     | <.0500                                  | <.050                                          | <.050                                      | <.0500                                             | <.05                                              | <.050                                               |
| 12... |      | <.050                                            | <.050                                                   | .080                                          | <.050                                             | <.050                                     | <.0500                                  | <.050                                          | <.050                                      | <.0500                                             | <.05                                              | <.050                                               |
| MAY   |      |                                                  |                                                         |                                               |                                                   |                                           |                                         |                                                |                                            |                                                    |                                                   |                                                     |
| 05... |      | <.050                                            | 23.0                                                    | <.050                                         | <.050                                             | <.050                                     | <.0500                                  | <.050                                          | <.050                                      | <.0500                                             | <.05                                              | .190                                                |
| 05... |      | <.050                                            | 132                                                     | .200                                          | <.050                                             | <.050                                     | <.0500                                  | <.050                                          | <.050                                      | <.0500                                             | <.05                                              | .180                                                |
| 05... |      | <.050                                            | 55.6                                                    | <.050                                         | <.050                                             | <.050                                     | <.0500                                  | <.050                                          | <.050                                      | <.0500                                             | <.05                                              | <.050                                               |
| 31... |      | .550                                             | 13.7                                                    | .290                                          | <.050                                             | .110                                      | <.0500                                  | <.050                                          | <.050                                      | <.0500                                             | <.05                                              | 1.45                                                |

MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued  
0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued  
GRAB SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| MAR   |      |                                                                       |                                                       |
| 19... | 1215 | 3.1                                                                   | 405                                                   |
| 19... | 1226 | 3.1                                                                   | 426                                                   |
| 19... | 1245 | 3.0                                                                   | 447                                                   |

COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

|      |                                                                |                                                                               |                                                               | NITRO-<br>GEN,<br>AMMONIA<br>DIS-                                | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC                                | NITRO-<br>NO2+NO3<br>DIS-                                                | NITRO-<br>GEN,<br>NITRITE<br>DIS-                                          | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-                                         | PHOS-<br>PHORUS<br>TOTAL<br>AS P)                                            | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)                                   | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC               | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC |
|------|----------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------|
| DATE | TIME                                                           | ENDING<br>TIME                                                                |                                                               | SOLVED<br>(MG/L<br>AS N)<br>(00608)                              | TOTAL<br>(MG/L<br>AS N)<br>(00625)                                      | SOLVED<br>(MG/L<br>AS N)<br>(00631)                                      | SOLVED<br>(MG/L<br>AS N)<br>(00613)                                        | SOLVED<br>(MG/L<br>AS P)<br>(00671)                                       | SOLVED<br>(MG/L<br>AS P)<br>(00665)                                          | SOLVED<br>(MG/L<br>AS C)<br>(00680)                                             | (UG/L)<br>(50309)                                                    | (UG/L)<br>(49260)                         |
| MAR  | 16-16                                                          | 0906                                                                          | 2033                                                          | .060                                                             | 2.4                                                                     | 1.80                                                                     | .080                                                                       | .170                                                                      | .790                                                                         | 9.1                                                                             | <.050                                                                | <.050                                     |
| MAR  | 18-19                                                          | 2300                                                                          | 1159                                                          | .050                                                             | 2.3                                                                     | .740                                                                     | .020                                                                       | .160                                                                      | .900                                                                         | 11                                                                              | <.050                                                                | <.050                                     |
| MAR  | 19-19                                                          | 1159                                                                          | 1720                                                          | .050                                                             | 1.8                                                                     | .620                                                                     | .020                                                                       | .160                                                                      | .690                                                                         | 7.0                                                                             | <.050                                                                | <.050                                     |
| MAR  | 27-27                                                          | 0157                                                                          | 0421                                                          | <.010                                                            | 3.6                                                                     | .250                                                                     | <.010                                                                      | .100                                                                      | 1.60                                                                         | 3.7                                                                             | <.050                                                                | <.050                                     |
| MAR  | 30-30                                                          | 0021                                                                          | 0540                                                          | .030                                                             | 2.1                                                                     | .320                                                                     | <.010                                                                      | .070                                                                      | .960                                                                         | 5.9                                                                             | <.050                                                                | <.050                                     |
| APR  | 01-02                                                          | 1638                                                                          | 0123                                                          | .100                                                             | 4.2                                                                     | .700                                                                     | .010                                                                       | .100                                                                      | 1.60                                                                         | 2.9                                                                             | <.050                                                                | <.050                                     |
| MAY  | 04-04                                                          | 0113                                                                          | 0352                                                          | .020                                                             | 2.7                                                                     | 3.50                                                                     | .060                                                                       | .150                                                                      | .990                                                                         | 8.7                                                                             | <.050                                                                | <.050                                     |
| JUN  | 04-04                                                          | 1057                                                                          | 1155                                                          | --                                                               | --                                                                      | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                              | --                                                                   | --                                        |
| DATE | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI<br>FLURO-<br>METHYL)<br>FILTR,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)   | CYANA-<br>ZINE-<br>AMIDE<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL<br>METRYN<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLFLUO-<br>LURAZON<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50380)    | FLUO-<br>MET-<br>URON<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |                                           |
| MAR  | 16-16                                                          | <.050                                                                         | <.050                                                         | .080                                                             | <.050                                                                   | .190                                                                     | <.050                                                                      | .06                                                                       | <.050                                                                        | .730                                                                            | .100                                                                 | .370                                      |
| MAR  | 18-19                                                          | <.050                                                                         | <.050                                                         | <.050                                                            | <.050                                                                   | .090                                                                     | <.050                                                                      | .05                                                                       | <.050                                                                        | .170                                                                            | <.050                                                                | .140                                      |
| MAR  | 19-19                                                          | <.050                                                                         | <.050                                                         | <.050                                                            | <.050                                                                   | <.050                                                                    | <.050                                                                      | .07                                                                       | <.050                                                                        | .680                                                                            | .230                                                                 | .260                                      |
| MAR  | 27-27                                                          | <.050                                                                         | <.050                                                         | .050                                                             | <.050                                                                   | .080                                                                     | <.050                                                                      | .07                                                                       | <.050                                                                        | .400                                                                            | <.050                                                                | .240                                      |
| MAR  | 30-30                                                          | <.050                                                                         | <.050                                                         | .060                                                             | <.050                                                                   | .090                                                                     | <.050                                                                      | .08                                                                       | <.050                                                                        | .450                                                                            | <.050                                                                | .120                                      |
| APR  | 01-02                                                          | <.050                                                                         | <.050                                                         | <.050                                                            | <.050                                                                   | .150                                                                     | <.050                                                                      | .05                                                                       | <.050                                                                        | .440                                                                            | .120                                                                 | .070                                      |
| MAY  | 04-04                                                          | <.050                                                                         | <.050                                                         | .300                                                             | <.050                                                                   | .110                                                                     | .060                                                                       | .10                                                                       | <.050                                                                        | .350                                                                            | <.050                                                                | .070                                      |
| JUN  | 04-04                                                          | --                                                                            | --                                                            | --                                                               | --                                                                      | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                              | --                                                                   | --                                        |
| DATE | METO-<br>LACHLOR<br>WATER<br>DISSOLVE<br>(UG/L)<br>(39415)     | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLVE<br>(UG/L)<br>(82630)           | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)   | NORFLU-<br>RAZONE<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(38532) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)          | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)         | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154)                |                                           |
| MAR  | 16-16                                                          | <.050                                                                         | <.050                                                         | <.050                                                            | <.050                                                                   | <.05                                                                     | <.050                                                                      | <.05                                                                      | <.050                                                                        | <.05                                                                            | <.050                                                                | 487                                       |
| MAR  | 18-19                                                          | <.050                                                                         | <.050                                                         | <.050                                                            | <.050                                                                   | <.05                                                                     | <.050                                                                      | <.05                                                                      | <.050                                                                        | <.05                                                                            | <.050                                                                | 616                                       |
| MAR  | 19-19                                                          | <.050                                                                         | <.050                                                         | <.050                                                            | <.050                                                                   | <.05                                                                     | <.050                                                                      | <.05                                                                      | <.050                                                                        | <.05                                                                            | <.050                                                                | 404                                       |
| MAR  | 27-27                                                          | <.050                                                                         | <.050                                                         | <.050                                                            | <.050                                                                   | <.05                                                                     | <.050                                                                      | <.05                                                                      | <.050                                                                        | <.05                                                                            | <.050                                                                | 1380                                      |
| MAR  | 30-30                                                          | <.050                                                                         | <.050                                                         | <.050                                                            | <.050                                                                   | <.05                                                                     | <.050                                                                      | <.05                                                                      | <.050                                                                        | <.05                                                                            | <.050                                                                | 796                                       |
| APR  | 01-02                                                          | <.050                                                                         | <.050                                                         | <.050                                                            | <.050                                                                   | <.05                                                                     | <.050                                                                      | <.05                                                                      | <.050                                                                        | <.05                                                                            | <.050                                                                | 1620                                      |
| MAY  | 04-04                                                          | .220                                                                          | <.050                                                         | <.050                                                            | .080                                                                    | .05                                                                      | <.050                                                                      | <.05                                                                      | <.050                                                                        | <.05                                                                            | <.050                                                                | 727                                       |
| JUN  | 04-04                                                          | --                                                                            | --                                                            | --                                                               | --                                                                      | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                              | --                                                                   | 1760                                      |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862104 BEASLEY LAKE TRIBUTARY NO 3 NEAR INDIANOLA, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | ATRA-<br>ZINE<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99775) | FLUO-<br>METURON<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99773) | METRI-<br>BUZIN<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99774) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------|
| JAN   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                      |
| 03... | 1343 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 749                                                  |
| 03... | 1612 | 1.1                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 462                                                  |
| 03... | 1824 | .93                                                                   | .050                                                                     | 1.9                                                                           | .540                                                                     | .020                                                                     | .310                                                                     | .800                                                  | --                                                                       | .91                                                                         | --                                                                         | 281                                                  |
| 03... | 1826 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 268                                                  |
| 03... | 1935 | .76                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 314                                                  |
| MAR   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                      |
| 16... | 0907 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 167                                                  |
| 16... | 1108 | 3.0                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 764                                                  |
| 18... | 2301 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 491                                                  |
| 19... | 0127 | 2.9                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 389                                                  |
| 19... | 0254 | 5.6                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 629                                                  |
| 19... | 0412 | 4.6                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 848                                                  |
| 19... | 0547 | 3.3                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 740                                                  |
| 19... | 0748 | 2.1                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 592                                                  |
| 19... | 1032 | 1.6                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 439                                                  |
| 19... | 1216 | 3.1                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 382                                                  |
| 19... | 1225 | 3.1                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 415                                                  |
| 19... | 1237 | 3.0                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 403                                                  |
| 19... | 1246 | 3.0                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 511                                                  |
| 19... | 1439 | 2.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 398                                                  |
| 19... | 1721 | 1.1                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 337                                                  |
| 19... | 1813 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 329                                                  |
| 19... | 1817 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 314                                                  |
| 19... | 1820 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 288                                                  |
| 27... | 0158 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1860                                                 |
| 27... | 0201 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1800                                                 |
| 27... | 0317 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1040                                                 |
| 27... | 0326 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 995                                                  |
| 27... | 0328 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 974                                                  |
| 27... | 0330 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 974                                                  |
| 30... | 0021 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 307                                                  |
| 30... | 0215 | 2.0                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 893                                                  |
| 30... | 0501 | 1.0                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 719                                                  |
| 30... | 0540 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 663                                                  |
| APR   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                      |
| 01... | 1639 | 1.2                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 954                                                  |
| 01... | 1754 | 4.8                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1870                                                 |
| 01... | 1915 | 5.4                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1370                                                 |
| 01... | 2025 | 7.8                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1350                                                 |
| 01... | 2119 | 8.5                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1140                                                 |
| 01... | 2210 | 13                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1650                                                 |
| 01... | 2239 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1640                                                 |
| 01... | 2313 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1420                                                 |
| 01... | 2356 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1380                                                 |
| 02... | 0031 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1750                                                 |
| 02... | 0109 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1570                                                 |
| 02... | 0153 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1420                                                 |
| 02... | 0240 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1490                                                 |
| 02... | 0339 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1360                                                 |
| 02... | 0442 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1210                                                 |
| 02... | 0543 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 993                                                  |
| 02... | 0651 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 835                                                  |
| 02... | 0805 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 736                                                  |
| 02... | 0919 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 658                                                  |
| 02... | 1040 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 541                                                  |
| 02... | 1208 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 525                                                  |
| 03... | 0037 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 412                                                  |
| 03... | 0535 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 622                                                  |
| 03... | 0629 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 820                                                  |
| 03... | 0728 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 880                                                  |
| 03... | 0820 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 770                                                  |
| 03... | 0912 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 763                                                  |
| 03... | 1005 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 690                                                  |
| 03... | 1058 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 641                                                  |
| 03... | 1151 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 551                                                  |
| 03... | 1243 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 483                                                  |
| 03... | 1334 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 432                                                  |
| 03... | 1425 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 386                                                  |
| 03... | 1515 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 347                                                  |
| 03... | 1604 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 301                                                  |
| 03... | 1652 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 258                                                  |
| 03... | 1740 | --                                                                    | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 265                                                  |
| MAY   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                      |
| 04... | 0115 | .98                                                                   | .030                                                                     | 3.0                                                                           | 4.80                                                                     | .080                                                                     | .170                                                                     | .960                                                  | --                                                                       | .22                                                                         | <.10                                                                       | 585                                                  |
| 04... | 0320 | 1.0                                                                   | .060                                                                     | 2.6                                                                           | 2.50                                                                     | .040                                                                     | .130                                                                     | 1.10                                                  | --                                                                       | .24                                                                         | <.10                                                                       | 715                                                  |
| 04... | 0347 | .93                                                                   | .010                                                                     | 2.5                                                                           | 2.30                                                                     | .040                                                                     | .130                                                                     | 1.00                                                  | --                                                                       | .16                                                                         | <.10                                                                       | 692                                                  |
| 04... | 0350 | .93                                                                   | .020                                                                     | 2.6                                                                           | 2.30                                                                     | .040                                                                     | .130                                                                     | 1.10                                                  | --                                                                       | --                                                                          | <.10                                                                       | 685                                                  |
| 04... | 0352 | .93                                                                   | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 677                                                  |
| JUN   |      |                                                                       |                                                                          |                                                                               |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                      |
| 04... | 1058 | .93                                                                   | .720                                                                     | 7.1                                                                           | 2.80                                                                     | .060                                                                     | .160                                                                     | 1.60                                                  | --                                                                       | .08                                                                         | --                                                                         | 2580                                                 |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862105 BEASLEY LAKE TRIBUTARY NO 4A NEAR INDIANOLA, MS

LOCATION.--Lat 33°23'59", long 90°39'34", in NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec.19, T.18 N., R.4 W., Choctaw Meridian, Sunflower County, Hydrologic Unit 08030207, on tributary approximately 0.8 mi upstream of Beasley Lake, 2.5 mi southwest of Indianola.

DRAINAGE AREA.--0.59 mi<sup>2</sup> (380 acres), approximately.

PERIOD OF RECORD.--Water years 1997 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 106.20 ft above sea level. Automatic pumping water-quality and sediment samplers since November 1996.

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

|              |                                                                |                                                                               | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                     | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309)     | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260) |
|--------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------|
| DATE         | TIME                                                           | ENDING<br>TIME                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                 |                                                                |
| JUL<br>08-09 | 1901                                                           | 1248                                                                          | .038                                                                     | 1.6                                                                            | .910                                                                     | .022                                                                     | .100                                                                       | .540                                                                      | 4.2                                                                          | <.050                                                                           | <.0500                                                         |
| AUG<br>09-10 | 0646                                                           | 0931                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | <.050                                                                           | <.0500                                                         |
| AUG<br>14-15 | 1716                                                           | 0501                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | <.050                                                                           | <.0500                                                         |
| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)   | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380)     | FLURO-<br>MET-<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710)   |
|              |                                                                |                                                                               |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                 |                                                                |
| JUL<br>08-09 | <.050                                                          | .070                                                                          | .140                                                                     | <.0500                                                                         | .200                                                                     | .0700                                                                    | .220                                                                       | <.050                                                                     | 1.16                                                                         | .280                                                                            | 3.34                                                           |
| AUG<br>09-10 | <.050                                                          | <.050                                                                         | <.050                                                                    | .340                                                                           | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                        | <.050                                                                           | .480                                                           |
| AUG<br>14-15 | <.050                                                          | .060                                                                          | .080                                                                     | .630                                                                           | .310                                                                     | <.0500                                                                   | .0600                                                                      | .050                                                                      | 1.60                                                                         | <.050                                                                           | 1.26                                                           |
| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)            | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)              | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)                | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)           | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLURO-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)        | UREA,<br>3-TRI-<br>FLUROO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154)           |
|              |                                                                |                                                                               |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                 |                                                                |
| JUL<br>08-09 | 1.91                                                           | <.050                                                                         | .080                                                                     | .230                                                                           | .460                                                                     | <.050                                                                    | <.050                                                                      | .180                                                                      | <.05                                                                         | <.050                                                                           | 461                                                            |
| AUG<br>09-10 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                    | <.050                                                                      | <.0500                                                                    | <.05                                                                         | <.050                                                                           | 132                                                            |
| AUG<br>14-15 | .110                                                           | <.050                                                                         | <.050                                                                    | <.050                                                                          | .190                                                                     | <.050                                                                    | <.050                                                                      | <.0500                                                                    | <.05                                                                         | <.050                                                                           | 77                                                             |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862105 BEASLEY LAKE TRIBUTARY NO 4A NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

| DATE         | TIME                                                           | ENDING<br>TIME                                                                 | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                     | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                    | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)      |
|--------------|----------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|
|              |                                                                |                                                                                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                             |                                                                             |                                                                     |
| DEC<br>21-21 | 0731                                                           | 1630                                                                           | <.010                                                                    | 2.2                                                                            | .250                                                                     | <.010                                                                    | .190                                                                       | .940                                                                      | --                                                                          | --                                                                          | --                                                                  |
| JAN<br>06-07 | 1021                                                           | 0742                                                                           | .024                                                                     | 1.5                                                                            | .120                                                                     | <.010                                                                    | .160                                                                       | .400                                                                      | 6.7                                                                         | <.050                                                                       | <.0500                                                              |
| JAN<br>15-16 | 1531                                                           | 0121                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| JAN<br>22-22 | 0233                                                           | 0930                                                                           | .013                                                                     | 1.3                                                                            | .110                                                                     | <.010                                                                    | .100                                                                       | .440                                                                      | 3.5                                                                         | --                                                                          | --                                                                  |
| FEB<br>10-11 | 2051                                                           | 0017                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>15-16 | 2209                                                           | 0452                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>16-17 | 2257                                                           | 0102                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>26-26 | 1149                                                           | 1942                                                                           | .016                                                                     | 1.9                                                                            | .100                                                                     | <.010                                                                    | .060                                                                       | .720                                                                      | 7.2                                                                         | --                                                                          | --                                                                  |
| MAR<br>07-08 | 1331                                                           | 0730                                                                           | .026                                                                     | 1.3                                                                            | .050                                                                     | <.010                                                                    | .070                                                                       | .530                                                                      | 8.3                                                                         | <.050                                                                       | <.0500                                                              |
| MAR<br>16-17 | 2256                                                           | 0056                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| MAY<br>16-16 | 0545                                                           | 0558                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| MAY<br>26-26 | 0159                                                           | 1205                                                                           | .036                                                                     | .74                                                                            | .760                                                                     | .031                                                                     | .090                                                                       | .150                                                                      | 8.0                                                                         | .590                                                                        | <.0500                                                              |
| MAY<br>28-30 | 2130                                                           | 0819                                                                           | .320                                                                     | 1.6                                                                            | 1.90                                                                     | .091                                                                     | .100                                                                       | .200                                                                      | 13                                                                          | .060                                                                        | <.0500                                                              |
| JUL<br>12-12 | 0834                                                           | 0836                                                                           | .062                                                                     | .96                                                                            | .040                                                                     | <.010                                                                    | .080                                                                       | .280                                                                      | 7.1                                                                         | --                                                                          | --                                                                  |
| JUL<br>13-14 | 0405                                                           | 0626                                                                           | .022                                                                     | .49                                                                            | .340                                                                     | .022                                                                     | .210                                                                       | .190                                                                      | 8.6                                                                         | <.050                                                                       | <.0500                                                              |
| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILTR,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)   | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLUO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| DEC<br>21-21 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| JAN<br>06-07 | <.050                                                          | <.050                                                                          | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .330                                                                        | <.050                                                                       | .140                                                                |
| JAN<br>15-16 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| JAN<br>22-22 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>10-11 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>15-16 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>16-17 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>26-26 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| MAR<br>07-08 | <.050                                                          | <.050                                                                          | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .280                                                                        | <.050                                                                       | .070                                                                |
| MAR<br>16-17 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| MAY<br>16-16 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| MAY<br>26-26 | <.050                                                          | <.050                                                                          | 4.25                                                                     | <.0500                                                                         | <.050                                                                    | 1.47                                                                     | .710                                                                       | <.050                                                                     | 1.33                                                                        | <.050                                                                       | .340                                                                |
| MAY<br>28-30 | <.050                                                          | <.050                                                                          | 3.77                                                                     | <.0500                                                                         | <.050                                                                    | .820                                                                     | .590                                                                       | <.050                                                                     | 2.51                                                                        | .880                                                                        | .720                                                                |
| JUL<br>12-12 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| JUL<br>13-14 | <.050                                                          | <.050                                                                          | .150                                                                     | .860                                                                           | .540                                                                     | .110                                                                     | <.0500                                                                     | <.050                                                                     | .750                                                                        | .680                                                                        | .390                                                                |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862105 BEASLEY LAKE TRIBUTARY NO 4A NEAR INDIANOLA, MS--Continued

COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|--------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------|
| DEC<br>21-21 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 653                                                  |
| JAN<br>06-07 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 343                                                  |
| JAN<br>15-16 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 406                                                  |
| JAN<br>22-22 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 287                                                  |
| FEB<br>10-11 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 633                                                  |
| FEB<br>15-16 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 275                                                  |
| FEB<br>16-17 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 297                                                  |
| FEB<br>26-26 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 664                                                  |
| MAR<br>07-08 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 399                                                  |
| MAR<br>16-17 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 939                                                  |
| MAY<br>16-16 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 91                                                   |
| MAY<br>26-26 | 1.52                                                      | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | .070                                                        | .110                                                          | <.05                                                                 | <.050                                                                           | 113                                                  |
| MAY<br>28-30 | 1.55                                                      | .100                                                     | <.050                                                       | .250                                                            | .100                                                           | <.050                                                       | .050                                                        | .0500                                                         | <.05                                                                 | <.050                                                                           | 131                                                  |
| JUL<br>12-12 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | --                                                   |
| JUL<br>13-14 | .250                                                      | <.050                                                    | <.050                                                       | .220                                                            | .250                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 129                                                  |





## 0728862105 BEASLEY LAKE TRIBUTARY NO 4A NEAR INDIANOLA, MS--Continued

[illegible]

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862105 BEASLEY LAKE TRIBUTARY NO 4A NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE      | TIME | ENDING<br>TIME | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260) | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) |
|-----------|------|----------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV 01-02 | 0204 | 0736           | .020                                                                     | 1.2                                                                            | 2.90                                                                     | .070                                                                     | .530                                                                     | .700                                                  | 6.5                                                      | --                                                                          | --                                                             | --                                                             |
| NOV 20-21 | 1408 | 0116           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             | --                                                             |
| DEC 12-14 | 1650 | 1850           | .020                                                                     | 1.7                                                                            | 1.50                                                                     | .010                                                                     | .190                                                                     | .510                                                  | 8.4                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JAN 03-04 | 1401 | 0320           | .030                                                                     | 2.6                                                                            | .810                                                                     | <.010                                                                    | .230                                                                     | 1.10                                                  | 6.8                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JAN 08-10 | 1540 | 0517           | .050                                                                     | 1.5                                                                            | 1.10                                                                     | <.010                                                                    | .160                                                                     | .510                                                  | 7.5                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| FEB 26-26 | 1855 | 2304           | .030                                                                     | 1.9                                                                            | .970                                                                     | .010                                                                     | .230                                                                     | .660                                                  | 7.4                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| MAR 15-16 | 2240 | 2352           | .030                                                                     | 2.0                                                                            | 1.30                                                                     | .010                                                                     | .150                                                                     | .650                                                  | 8.9                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| MAR 18-20 | 2243 | 0424           | .030                                                                     | 2.1                                                                            | .420                                                                     | <.010                                                                    | .130                                                                     | .760                                                  | 12                                                       | <.050                                                                       | <.050                                                          | <.050                                                          |
| MAR 27-27 | 0121 | 0726           | <.010                                                                    | 2.8                                                                            | .560                                                                     | .010                                                                     | .140                                                                     | 1.10                                                  | 5.2                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| MAR 29-30 | 1243 | 0243           | .030                                                                     | 2.0                                                                            | .560                                                                     | .010                                                                     | .090                                                                     | .900                                                  | 6.7                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| APR 01-03 | 1655 | 0254           | .060                                                                     | 3.7                                                                            | .400                                                                     | .010                                                                     | .100                                                                     | 1.20                                                  | 3.6                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| APR 03-04 | 0255 | 1135           | .080                                                                     | 2.0                                                                            | .280                                                                     | <.010                                                                    | .080                                                                     | .670                                                  | 3.4                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| APR 12-13 | 2314 | 0352           | .080                                                                     | 1.9                                                                            | .720                                                                     | <.010                                                                    | .070                                                                     | .700                                                  | 4.3                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| MAY 04-04 | 0049 | 0937           | 2.90                                                                     | 10                                                                             | 7.50                                                                     | .090                                                                     | .150                                                                     | .870                                                  | 6.9                                                      | .050                                                                        | <.050                                                          | <.050                                                          |
| MAY 04-05 | 2351 | 0754           | 3.10                                                                     | 7.2                                                                            | 7.30                                                                     | .200                                                                     | .120                                                                     | .730                                                  | 7.3                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUN 05-05 | 0424 | 0956           | 1.80                                                                     | 2.9                                                                            | 12.0                                                                     | .200                                                                     | .150                                                                     | .460                                                  | 6.2                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUL 17-17 | 1102 | 1202           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             | --                                                             |
| JUL 20-20 | 0632 | 1108           | .010                                                                     | .28                                                                            | .170                                                                     | <.010                                                                    | .050                                                                     | .140                                                  | 2.6                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| JUL 25-25 | 0706 | 1140           | <.010                                                                    | .37                                                                            | 1.10                                                                     | .020                                                                     | .100                                                                     | .120                                                  | 3.5                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |
| AUG 09-09 | 0829 | 1900           | .070                                                                     | .39                                                                            | .360                                                                     | .020                                                                     | .070                                                                     | .130                                                  | 5.3                                                      | <.050                                                                       | <.050                                                          | <.050                                                          |

| DATE      | ANILINE<br>3- (TRI<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041) | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) |
|-----------|-------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------|
| NOV 01-02 | --                                                                            | --                                                            | --                                                             | --                                                                     | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   | --                                                        |
| NOV 20-21 | --                                                                            | --                                                            | --                                                             | --                                                                     | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   | --                                                        |
| DEC 12-14 | <.050                                                                         | .070                                                          | <.050                                                          | .210                                                                   | <.050                                                                    | .07                                                                        | <.050                                                                     | .100                                                                         | <.050                                                                       | <.050                                                                | .080                                                      |
| JAN 03-04 | <.050                                                                         | .060                                                          | <.050                                                          | .110                                                                   | <.050                                                                    | .06                                                                        | <.050                                                                     | .120                                                                         | <.050                                                                       | .050                                                                 | .060                                                      |
| JAN 08-10 | <.050                                                                         | <.050                                                         | <.050                                                          | .050                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                     | <.050                                                                        | <.050                                                                       | <.050                                                                | <.050                                                     |
| FEB 26-26 | <.050                                                                         | .090                                                          | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                     | .210                                                                         | .320                                                                        | 1.48                                                                 | .050                                                      |
| MAR 15-16 | <.050                                                                         | .080                                                          | <.050                                                          | <.050                                                                  | <.050                                                                    | .05                                                                        | <.050                                                                     | <.050                                                                        | <.050                                                                       | <.050                                                                | <.050                                                     |
| MAR 18-20 | <.050                                                                         | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | .05                                                                        | <.050                                                                     | .200                                                                         | .150                                                                        | <.050                                                                | .050                                                      |
| MAR 27-27 | <.050                                                                         | <.050                                                         | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                     | .140                                                                         | <.050                                                                       | <.050                                                                | <.050                                                     |
| MAR 29-30 | <.050                                                                         | .050                                                          | <.050                                                          | .110                                                                   | <.050                                                                    | .05                                                                        | <.050                                                                     | .180                                                                         | .350                                                                        | <.050                                                                | .050                                                      |
| APR 01-03 | <.050                                                                         | <.050                                                         | <.050                                                          | .170                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                     | <.050                                                                        | <.050                                                                       | <.050                                                                | <.050                                                     |
| APR 03-04 | <.050                                                                         | <.050                                                         | <.050                                                          | .080                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                     | <.050                                                                        | <.050                                                                       | <.050                                                                | <.050                                                     |
| APR 12-13 | <.050                                                                         | .080                                                          | <.050                                                          | <.050                                                                  | <.050                                                                    | <.05                                                                       | <.050                                                                     | .090                                                                         | .450                                                                        | <.050                                                                | .050                                                      |
| MAY 04-04 | <.050                                                                         | 37.7                                                          | 3.69                                                           | .110                                                                   | 2.5                                                                      | 1.6                                                                        | <.050                                                                     | 1.32                                                                         | .360                                                                        | 6.46                                                                 | 4.71                                                      |
| MAY 04-05 | .050                                                                          | 40.3                                                          | 3.18                                                           | .210                                                                   | 2.1                                                                      | .73                                                                        | .310                                                                      | .780                                                                         | <.050                                                                       | 12.4                                                                 | 1.98                                                      |
| JUN 05-05 | <.050                                                                         | 1.88                                                          | 5.21                                                           | 1.28                                                                   | 1.0                                                                      | .87                                                                        | <.050                                                                     | .960                                                                         | .220                                                                        | 1.83                                                                 | .390                                                      |
| JUL 17-17 | --                                                                            | --                                                            | --                                                             | --                                                                     | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   | --                                                        |
| JUL 20-20 | <.050                                                                         | .060                                                          | .540                                                           | .690                                                                   | <.050                                                                    | <.05                                                                       | <.050                                                                     | .160                                                                         | <.050                                                                       | .080                                                                 | <.050                                                     |
| JUL 25-25 | <.050                                                                         | .080                                                          | 1.42                                                           | 1.58                                                                   | <.050                                                                    | .24                                                                        | <.050                                                                     | .800                                                                         | .120                                                                        | .840                                                                 | .100                                                      |
| AUG 09-09 | <.050                                                                         | .070                                                          | .800                                                           | 1.85                                                                   | <.050                                                                    | .12                                                                        | <.050                                                                     | .130                                                                         | <.050                                                                       | .190                                                                 | <.050                                                     |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862105 BEASLEY LAKE TRIBUTARY NO 4A NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

| DATE         | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PENDI-<br>METH-<br>ALIN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50376) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|--------------|--------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------|
| NOV<br>01-02 | --                                                                 | --                                                          | --                                                              | --                                                                    | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 131                                                  |
| NOV<br>20-21 | --                                                                 | --                                                          | --                                                              | --                                                                    | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 94                                                   |
| DEC<br>12-14 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 332                                                  |
| JAN<br>03-04 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 777                                                  |
| JAN<br>08-10 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 243                                                  |
| FEB<br>26-26 | <.050                                                              | <.050                                                       | .100                                                            | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 332                                                  |
| MAR<br>15-16 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 453                                                  |
| MAR<br>18-20 | <.050                                                              | <.050                                                       | .050                                                            | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 614                                                  |
| MAR<br>27-27 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 1290                                                 |
| MAR<br>29-30 | <.050                                                              | <.050                                                       | .050                                                            | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 825                                                  |
| APR<br>01-03 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 874                                                  |
| APR<br>03-04 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 611                                                  |
| APR<br>12-13 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 552                                                  |
| MAY<br>04-04 | <.050                                                              | <.050                                                       | .080                                                            | --                                                                    | <.05                                                           | <.050                                                       | <.05                                                        | .070                                                          | <.05                                                                 | <.050                                                                           | 838                                                  |
| MAY<br>04-05 | <.050                                                              | <.050                                                       | <.050                                                           | --                                                                    | <.05                                                           | <.050                                                       | .26                                                         | .090                                                          | <.05                                                                 | <.050                                                                           | 666                                                  |
| JUN<br>05-05 | <.050                                                              | <.050                                                       | .130                                                            | --                                                                    | 1.0                                                            | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 222                                                  |
| JUL<br>17-17 | --                                                                 | --                                                          | --                                                              | --                                                                    | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 142                                                  |
| JUL<br>20-20 | <.050                                                              | <.050                                                       | <.050                                                           | <.050                                                                 | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 59                                                   |
| JUL<br>25-25 | <.050                                                              | <.050                                                       | <.050                                                           | <.050                                                                 | .21                                                            | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 42                                                   |
| AUG<br>09-09 | <.050                                                              | <.050                                                       | <.050                                                           | <.050                                                                 | <.05                                                           | <.050                                                       | <.05                                                        | <.050                                                         | <.05                                                                 | <.050                                                                           | 46                                                   |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862106 BEASLEY LAKE TRIBUTARY NO 4B NEAR INDIANOLA, MS

LOCATION.--Lat 33°44'07", long 90°39'35", in NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec.19, T.18 N., R.4 W., Choctaw Meridian, Sunflower County, Hydrologic Unit 08030207, on tributary approximately 0.8 mi upstream of Beasley Lake, and 2.5 mi southwest of Indianola.

DRAINAGE AREA.--0.27 mi<sup>2</sup> (170 acres), approximately.

PERIOD OF RECORD.--Water years 1997 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 106.60 ft above sea level. Automatic pumping water-quality and sediment samplers since November 1996.

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

| DATE      | TIME                                          | ENDING TIME                                              | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)<br>(00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)<br>(00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)<br>(00631) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)<br>(00613)  | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)<br>(00671)    | PHOS-PHORUS TOTAL (MG/L AS P)<br>(00665)               | CARBON, ORGANIC TOTAL (MG/L AS C)<br>(00680)              | 3,4-DI-CHLORO-ANILINE WATER FLTRD REC (UG/L)<br>(50309)   | ACETO-CHLOR, WATER FLTRD REC (UG/L)<br>(49260)    |
|-----------|-----------------------------------------------|----------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|
| DEC 22-22 | 0001                                          | 0800                                                     | .016                                                 | 1.3                                                        | .150                                                 | <.010                                                 | <.010                                                   | .160                                                   | --                                                        | --                                                        | --                                                |
| MAR 07-08 | 1443                                          | 1933                                                     | .019                                                 | 1.0                                                        | .040                                                 | <.010                                                 | .090                                                    | .170                                                   | 6.8                                                       | <.050                                                     | <.0500                                            |
| APR 28-28 | 0608                                          | 1424                                                     | .500                                                 | 2.8                                                        | 7.50                                                 | .130                                                  | .070                                                    | .370                                                   | 10                                                        | <.050                                                     | --                                                |
| MAY 29-30 | 0443                                          | 0757                                                     | .180                                                 | 1.4                                                        | 1.80                                                 | .064                                                  | .160                                                    | .290                                                   | 11                                                        | <.050                                                     | <.0500                                            |
| JUL 13-14 | 0820                                          | 0150                                                     | .042                                                 | .65                                                        | .070                                                 | <.010                                                 | .060                                                    | .140                                                   | 9.4                                                       | <.050                                                     | <.0500                                            |
| DATE      | ALA-CHLOR, WATER, DISS, REC (UG/L)<br>(46342) | ANILINE 3-(TRI-PLURO-METHYL) FILT, REC (UG/L)<br>(50307) | ATRA-ZINE, WATER, DISS, REC (UG/L)<br>(39632)        | CYANA-ZINE, WATER, DISS, REC (UG/L)<br>(04041)             | CYANA-ZINE-AMIDE WATER, FLTRD REC (UG/L)<br>(61709)  | DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L)<br>(04040) | DEISO-PROPYL-ATRAZIN WATER, DISS, REC (UG/L)<br>(04038) | DEISO-PROPYL-METRYN WATER, FLTRD REC (UG/L)<br>(50378) | DEMETH-YLFLURO-METURON WATER, FLTRD REC (UG/L)<br>(50379) | DEMETH-YLNORF-LURAZON WATER, FLTRD REC (UG/L)<br>(50380)  | FLURO-MET-URON WATER, FLTRD REC (UG/L)<br>(61710) |
| DEC 22-22 | --                                            | --                                                       | --                                                   | --                                                         | --                                                   | --                                                    | --                                                      | --                                                     | --                                                        | --                                                        | --                                                |
| MAR 07-08 | <.050                                         | <.050                                                    | <.050                                                | <.0500                                                     | <.050                                                | <.0500                                                | <.0500                                                  | <.050                                                  | <.050                                                     | <.050                                                     | <.050                                             |
| APR 28-28 | <.050                                         | <.050                                                    | 1.53                                                 | <.0500                                                     | <.050                                                | .140                                                  | .100                                                    | <.050                                                  | <.050                                                     | <.050                                                     | .050                                              |
| MAY 29-30 | <.050                                         | <.050                                                    | 3.78                                                 | .0500                                                      | <.050                                                | .400                                                  | .360                                                    | <.050                                                  | .330                                                      | .420                                                      | .140                                              |
| JUL 13-14 | <.050                                         | <.050                                                    | <.050                                                | <.0500                                                     | <.050                                                | <.0500                                                | <.0500                                                  | <.050                                                  | <.050                                                     | <.050                                                     | <.050                                             |
| DATE      | METO-LACHLOR WATER DISSOLV (UG/L)<br>(39415)  | METRI-BUZIN SENCOR WATER DISSOLV (UG/L)<br>(82630)       | MOLI-NATE WATER FLTRD REC (UG/L)<br>(50375)          | NORFLU-RAZONE WATER FLTRD REC (UG/L)<br>(50332)            | PRO-METRYN, WATER, DISS, REC (UG/L)<br>(04036)       | PROP-ANIL WATER, FLTRD REC (UG/L)<br>(50377)          | PROP-AZINE WATER, DISS, REC (UG/L)<br>(38535)           | SI-MAZINE, WATER, DISS, REC (UG/L)<br>(04035)          | TRI-FLUR-ALIN WATER, DISS, REC (UG/L)<br>(38574)          | UREA, 3-TRI-FLURO-METHYL-PHENYL UNFLTRD (UG/L)<br>(50473) | SEDI-MENT, SUS-PENDED (MG/L)<br>(80154)           |
| DEC 22-22 | --                                            | --                                                       | --                                                   | --                                                         | --                                                   | --                                                    | --                                                      | --                                                     | --                                                        | --                                                        | 161                                               |
| MAR 07-08 | <.050                                         | <.050                                                    | <.050                                                | <.050                                                      | <.0500                                               | <.050                                                 | <.050                                                   | <.0500                                                 | <.05                                                      | <.050                                                     | 111                                               |
| APR 28-28 | .110                                          | 9.52                                                     | <.050                                                | <.050                                                      | <.0500                                               | <.050                                                 | <.050                                                   | <.0500                                                 | <.05                                                      | <.050                                                     | 204                                               |
| MAY 29-30 | 1.14                                          | 3.90                                                     | <.050                                                | .080                                                       | <.0500                                               | <.050                                                 | .070                                                    | <.0500                                                 | <.05                                                      | <.050                                                     | 138                                               |
| JUL 13-14 | <.050                                         | .140                                                     | <.050                                                | <.050                                                      | <.0500                                               | <.050                                                 | <.050                                                   | <.0500                                                 | <.05                                                      | <.050                                                     | 55                                                |

MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued  
0728862106 BEASLEY LAKE TRIBUTARY NO 4B NEAR INDIANOLA, MS--Continued

COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

[illegible]



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862106 BEASLEY LAKE TRIBUTARY NO 4B NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME                                                           | ENDING<br>TIME                                                                | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                    | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309)    | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |
|--------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|
| NOV<br>01-02 | 0816                                                           | 0316                                                                          | .030                                                                     | 1.1                                                                            | 2.60                                                                     | .070                                                                     | .540                                                                       | .700                                                                     | 12                                                                           | --                                                                             | --                                                                   |
| DEC<br>10-10 | 0523                                                           | 1023                                                                          | .010                                                                     | 1.1                                                                            | .040                                                                     | <.010                                                                    | .050                                                                       | .240                                                                     | 11                                                                           | <.050                                                                          | <.050                                                                |
| DEC<br>12-14 | 1703                                                           | 1213                                                                          | .030                                                                     | 1.3                                                                            | .580                                                                     | .020                                                                     | .200                                                                       | .410                                                                     | 8.0                                                                          | <.050                                                                          | <.050                                                                |
| JAN<br>03-04 | 1438                                                           | 0108                                                                          | .020                                                                     | 2.1                                                                            | .490                                                                     | <.010                                                                    | .110                                                                       | .890                                                                     | 8.4                                                                          | <.050                                                                          | <.050                                                                |
| JAN<br>08-10 | 1508                                                           | 1208                                                                          | .020                                                                     | .66                                                                            | .180                                                                     | <.010                                                                    | .060                                                                       | .130                                                                     | 8.6                                                                          | <.050                                                                          | <.050                                                                |
| MAR<br>16-17 | 0119                                                           | 1134                                                                          | .080                                                                     | 1.2                                                                            | .560                                                                     | .010                                                                     | .060                                                                       | .210                                                                     | 13                                                                           | <.050                                                                          | <.050                                                                |
| MAR<br>18-19 | 2359                                                           | 1819                                                                          | .050                                                                     | 1.1                                                                            | .190                                                                     | <.010                                                                    | .110                                                                       | .250                                                                     | 11                                                                           | <.050                                                                          | <.050                                                                |
| MAR<br>29-30 | 1414                                                           | 0514                                                                          | .090                                                                     | 1.2                                                                            | .180                                                                     | <.010                                                                    | .090                                                                       | .320                                                                     | 12                                                                           | <.050                                                                          | <.050                                                                |
| APR<br>01-03 | 1719                                                           | 0451                                                                          | .060                                                                     | 1.2                                                                            | .170                                                                     | .010                                                                     | .110                                                                       | .490                                                                     | 8.8                                                                          | <.050                                                                          | <.050                                                                |
| APR<br>03-04 | 0521                                                           | 1929                                                                          | .080                                                                     | .87                                                                            | .030                                                                     | <.010                                                                    | .100                                                                       | .310                                                                     | 5.7                                                                          | <.050                                                                          | <.050                                                                |
| MAY<br>04-04 | 0310                                                           | 1324                                                                          | .210                                                                     | 1.7                                                                            | 1.70                                                                     | .030                                                                     | .090                                                                       | .500                                                                     | 6.8                                                                          | <.050                                                                          | <.050                                                                |
| MAY<br>05-05 | 0147                                                           | 1246                                                                          | .120                                                                     | 1.4                                                                            | .500                                                                     | .020                                                                     | .080                                                                       | .280                                                                     | 10                                                                           | <.050                                                                          | <.050                                                                |
| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE,<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)   | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380)    | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| NOV<br>01-02 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| DEC<br>10-10 | <.050                                                          | <.050                                                                         | .070                                                                     | <.050                                                                          | .330                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | .200                                                                         | <.050                                                                          | .090                                                                 |
| DEC<br>12-14 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | .270                                                                     | <.050                                                                    | .09                                                                        | <.050                                                                    | .130                                                                         | <.050                                                                          | .060                                                                 |
| JAN<br>03-04 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.050                                                                    | <.050                                                                    | <.05                                                                       | <.050                                                                    | .190                                                                         | <.050                                                                          | <.050                                                                |
| JAN<br>08-10 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.050                                                                    | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.050                                                                        | <.050                                                                          | <.050                                                                |
| MAR<br>16-17 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.050                                                                    | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.050                                                                        | <.050                                                                          | <.050                                                                |
| MAR<br>18-19 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.050                                                                    | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.050                                                                        | <.050                                                                          | <.050                                                                |
| MAR<br>29-30 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.050                                                                    | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.050                                                                        | <.050                                                                          | <.050                                                                |
| APR<br>01-03 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | .100                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.050                                                                        | .050                                                                           | <.050                                                                |
| APR<br>03-04 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | .080                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.050                                                                        | <.050                                                                          | <.050                                                                |
| MAY<br>04-04 | <.050                                                          | <.050                                                                         | .220                                                                     | <.050                                                                          | <.050                                                                    | .050                                                                     | <.05                                                                       | <.050                                                                    | <.050                                                                        | .140                                                                           | .050                                                                 |
| MAY<br>05-05 | <.050                                                          | <.050                                                                         | .230                                                                     | <.050                                                                          | .070                                                                     | .070                                                                     | .07                                                                        | <.050                                                                    | <.050                                                                        | .100                                                                           | <.050                                                                |
| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)            | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)              | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)                | PRO-<br>RAZON<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)  | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)            | TRI-<br>FLURO-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)        | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154)                 |
| NOV<br>01-02 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | 123                                                                  |
| DEC<br>10-10 | .070                                                           | <.050                                                                         | <.050                                                                    | <.050                                                                          | .05                                                                      | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 74                                                                   |
| DEC<br>12-14 | .060                                                           | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 192                                                                  |
| JAN<br>03-04 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 687                                                                  |
| JAN<br>08-10 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 54                                                                   |
| MAR<br>16-17 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 71                                                                   |
| MAR<br>18-19 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 104                                                                  |
| MAR<br>29-30 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 99                                                                   |
| APR<br>01-03 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 292                                                                  |
| APR<br>03-04 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 150                                                                  |
| MAY<br>04-04 | .140                                                           | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 280                                                                  |
| MAY<br>05-05 | .110                                                           | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                    | <.05                                                                         | <.050                                                                          | 144                                                                  |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862107 BEASLEY LAKE TRIBUTARY NO 4 NEAR INDIANOLA, MS

LOCATION.--Lat 33°23'52", long 90°40'01", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.18 N., R.5 W., Choctaw Meridian, Sunflower County, Hydrologic Unit 08030207, on tributary approximately 0.2 mi upstream of Beasley Lake, 2.6 mi southwest of Indianola.

DRAINAGE AREA.--1.31 mi<sup>2</sup>(840 acres), approximately.

PERIOD OF RECORD.--Water years 1997 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 101.80 ft above sea level. Automatic pumping water-quality and sediment samplers since October 1997.

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

|                   |                                                                |                                                                               | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613)  | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                     | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309)           | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |
|-------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| FEB<br>21-22      | 1614                                                           | 0114                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                         | --                                                                        | --                                                                           | --                                                                                    | --                                                                   |
| FEB 27-<br>MAR 03 | 0024                                                           | 1124                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                         | --                                                                        | --                                                                           | --                                                                                    | --                                                                   |
| MAY<br>02-03      | 1756                                                           | 2053                                                                          | .050                                                                     | 3.2                                                                            | .840                                                                     | .018                                                                      | .060                                                                       | 1.10                                                                      | 9.9                                                                          | <.050                                                                                 | <.0500                                                               |
| JUN<br>09-11      | 1734                                                           | 1433                                                                          | .084                                                                     | 1.7                                                                            | 1.10                                                                     | .026                                                                      | .100                                                                       | .560                                                                      | 4.3                                                                          | <.050                                                                                 | <.0500                                                               |
| AUG<br>09-13      | 1118                                                           | 0917                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                         | --                                                                        | --                                                                           | <.050                                                                                 | <.0500                                                               |
| AUG<br>15-15      | 0132                                                           | 0146                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                         | --                                                                        | --                                                                           | <.050                                                                                 | <.0500                                                               |
| DATE              | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)   | DEETHYL-<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380)           | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
|                   |                                                                |                                                                               |                                                                          |                                                                                |                                                                          |                                                                           |                                                                            |                                                                           |                                                                              |                                                                                       |                                                                      |
| FEB<br>21-22      | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                         | --                                                                        | --                                                                           | --                                                                                    | --                                                                   |
| FEB 27-<br>MAR 03 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                         | --                                                                        | --                                                                           | --                                                                                    | --                                                                   |
| MAY<br>02-03      | <.050                                                          | <.050                                                                         | .120                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                    | <.0500                                                                     | <.050                                                                     | .220                                                                         | .160                                                                                  | .060                                                                 |
| JUN<br>09-11      | <.050                                                          | .100                                                                          | 1.16                                                                     | .120                                                                           | .080                                                                     | .150                                                                      | .210                                                                       | <.050                                                                     | 1.74                                                                         | <.050                                                                                 | 7.25                                                                 |
| AUG<br>09-13      | <.050                                                          | <.050                                                                         | <.050                                                                    | .230                                                                           | .310                                                                     | <.0500                                                                    | <.0500                                                                     | <.050                                                                     | <.050                                                                        | <.050                                                                                 | .560                                                                 |
| AUG<br>15-15      | <.050                                                          | <.050                                                                         | .090                                                                     | .380                                                                           | .180                                                                     | <.0500                                                                    | .0700                                                                      | <.050                                                                     | .380                                                                         | <.050                                                                                 | .560                                                                 |
| DATE              | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>FLTRD<br>DISSOLV<br>(UG/L)<br>(82630)   | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)              | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)                | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)           | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)               | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)         | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>REC<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154)                |
|                   |                                                                |                                                                               |                                                                          |                                                                                |                                                                          |                                                                           |                                                                            |                                                                           |                                                                              |                                                                                       |                                                                      |
| FEB<br>21-22      | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                         | --                                                                        | --                                                                           | --                                                                                    | 924                                                                  |
| FEB 27-<br>MAR 03 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                         | --                                                                        | --                                                                           | --                                                                                    | 452                                                                  |
| MAY<br>02-03      | .660                                                           | 2.02                                                                          | <.050                                                                    | .060                                                                           | <.0500                                                                   | <.050                                                                     | <.050                                                                      | <.0500                                                                    | <.05                                                                         | <.050                                                                                 | 1090                                                                 |
| JUN<br>09-11      | 1.92                                                           | .120                                                                          | .070                                                                     | <.050                                                                          | <.0500                                                                   | <.050                                                                     | <.050                                                                      | <.0500                                                                    | <.05                                                                         | <.050                                                                                 | 430                                                                  |
| AUG<br>09-13      | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                     | <.050                                                                      | <.0500                                                                    | <.05                                                                         | <.050                                                                                 | 77                                                                   |
| AUG<br>15-15      | .060                                                           | <.050                                                                         | <.050                                                                    | <.050                                                                          | .0600                                                                    | <.050                                                                     | <.050                                                                      | <.0500                                                                    | <.05                                                                         | <.050                                                                                 | 75                                                                   |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862107 BEASLEY LAKE TRIBUTARY NO 4 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

| DATE                     | TIME                                                          | ENDING<br>TIME                                                               | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                    | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>(UG/L)<br>(50309)           | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |
|--------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|
| NOV 29-<br>DEC 02<br>DEC | 0026                                                          | 1025                                                                         | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| DEC 03-05                | 1902                                                          | 0505                                                                         | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| DEC 21-22                | 0941                                                          | 1441                                                                         | .010                                                                     | 1.2                                                                            | .140                                                                     | <.010                                                                    | .170                                                                       | .400                                                                     | 8.7                                                                          | <.050                                                                          | <.0500                                                               |
| DEC 23-24                | 2048                                                          | 1714                                                                         | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| JAN 15-16                | 1900                                                          | 0242                                                                         | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| JAN 22-22                | 0534                                                          | 1034                                                                         | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| FEB 26-26                | 1541                                                          | 2135                                                                         | .016                                                                     | 1.1                                                                            | .090                                                                     | <.010                                                                    | .080                                                                       | .400                                                                     | 6.3                                                                          | --                                                                             | --                                                                   |
| MAR 07-08                | 1344                                                          | 0853                                                                         | .020                                                                     | 1.2                                                                            | .060                                                                     | <.010                                                                    | .080                                                                       | .210                                                                     | 6.1                                                                          | <.050                                                                          | <.0500                                                               |
| MAR 17-17                | 0119                                                          | 1126                                                                         | .032                                                                     | 1.9                                                                            | .060                                                                     | <.010                                                                    | .200                                                                       | .850                                                                     | 8.1                                                                          | <.050                                                                          | <.0500                                                               |
| MAY 29-30                | 0644                                                          | 0740                                                                         | .490                                                                     | 1.8                                                                            | 3.20                                                                     | .086                                                                     | .140                                                                       | .280                                                                     | 9.2                                                                          | <.050                                                                          | <.0500                                                               |
| DATE                     | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FLTRD<br>REC<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE,<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(61709)           | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380)                | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| NOV 29-<br>DEC 02<br>DEC | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| DEC 03-05                | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| DEC 21-22                | <.050                                                         | <.050                                                                        | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                    | .050                                                                         | <.050                                                                          | .080                                                                 |
| DEC 23-24                | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| JAN 15-16                | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| JAN 22-22                | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| FEB 26-26                | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | --                                                                   |
| MAR 07-08                | <.050                                                         | <.050                                                                        | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                    | .120                                                                         | <.050                                                                          | <.050                                                                |
| MAR 17-17                | <.050                                                         | <.050                                                                        | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                    | .480                                                                         | .530                                                                           | .070                                                                 |
| MAY 29-30                | <.050                                                         | .050                                                                         | 9.28                                                                     | <.0500                                                                         | <.050                                                                    | 1.69                                                                     | .960                                                                       | <.050                                                                    | .590                                                                         | <.050                                                                          | 1.15                                                                 |
| DATE                     | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)     | METRI-<br>BUZIN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(82630)                | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)              | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)                | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)           | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)            | TRI-<br>FLURO-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)        | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154)                 |
| NOV 29-<br>DEC 02<br>DEC | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | 88                                                                   |
| DEC 03-05                | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | 76                                                                   |
| DEC 21-22                | <.050                                                         | <.050                                                                        | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                    | <.050                                                                      | <.0500                                                                   | <.05                                                                         | <.050                                                                          | 156                                                                  |
| DEC 23-24                | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | 156                                                                  |
| JAN 15-16                | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | 247                                                                  |
| JAN 22-22                | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | 209                                                                  |
| FEB 26-26                | --                                                            | --                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                       | --                                                                           | --                                                                             | 211                                                                  |
| MAR 07-08                | <.050                                                         | <.050                                                                        | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                    | <.050                                                                      | <.0500                                                                   | <.05                                                                         | <.050                                                                          | 134                                                                  |
| MAR 17-17                | .080                                                          | <.050                                                                        | <.050                                                                    | .100                                                                           | <.0500                                                                   | <.050                                                                    | <.050                                                                      | <.0500                                                                   | <.05                                                                         | <.050                                                                          | 352                                                                  |
| MAY 29-30                | 1.16                                                          | .750                                                                         | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                    | .110                                                                       | .0700                                                                    | <.05                                                                         | <.050                                                                          | 178                                                                  |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862107 BEASLEY LAKE TRIBUTARY NO 4 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

| DATE      | TIME                                                           | ENDING<br>TIME                                                                          | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                     | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                      | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>REC<br>(UG/L)<br>(50309)             | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |
|-----------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|
| DEC 12-14 | 0329                                                           | 1455                                                                                    | .016                                                                     | 1.0                                                                            | 2.60                                                                     | <.010                                                                    | .110                                                                       | .250                                                                      | 8.8                                                                           | <.050                                                                          | <.0500                                                               |
| DEC 22-22 | 0157                                                           | 1402                                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| JAN 08-08 | 0326                                                           | 0541                                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| JAN 08-11 | 1553                                                           | 1138                                                                                    | .044                                                                     | 1.7                                                                            | .360                                                                     | <.010                                                                    | .080                                                                       | .680                                                                      | --                                                                            | <.050                                                                          | --                                                                   |
| JAN 22-25 | 1146                                                           | 1054                                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| JAN 29-29 | 0432                                                           | 1621                                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| MAR 10-10 | 1830                                                           | 1852                                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| MAR 13-15 | 1612                                                           | 0941                                                                                    | .030                                                                     | 1.9                                                                            | .330                                                                     | <.010                                                                    | .130                                                                       | .750                                                                      | 4.4                                                                           | <.050                                                                          | <.0500                                                               |
| APR 04-04 | 0018                                                           | 1018                                                                                    | <.010                                                                    | 2.0                                                                            | .620                                                                     | E.010                                                                    | E.130                                                                      | .580                                                                      | 15                                                                            | <.050                                                                          | <.0500                                                               |
| APR 06-06 | 0135                                                           | 1032                                                                                    | .050                                                                     | 2.6                                                                            | .280                                                                     | <.010                                                                    | .140                                                                       | .830                                                                      | 10                                                                            | <.050                                                                          | <.0500                                                               |
| MAY 04-05 | 2339                                                           | 0438                                                                                    | 1.20                                                                     | 6.1                                                                            | <.020                                                                    | .050                                                                     | .110                                                                       | 1.30                                                                      | 11                                                                            | --                                                                             | --                                                                   |
| MAY 05-06 | 2004                                                           | 0713                                                                                    | 1.30                                                                     | 5.2                                                                            | 1.90                                                                     | .060                                                                     | .070                                                                       | 1.40                                                                      | 12                                                                            | <.050                                                                          | <.0500                                                               |
| DATE      | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE,<br>AMIDE<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(61709)  | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL<br>METRYN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50380)   | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| DEC 12-14 | <.050                                                          | <.050                                                                                   | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                         | <.050                                                                          | <.050                                                                |
| DEC 22-22 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| JAN 08-08 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| JAN 08-11 | <.050                                                          | <.050                                                                                   | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .140                                                                          | <.050                                                                          | <.050                                                                |
| JAN 22-25 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| JAN 29-29 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| MAR 10-10 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| MAR 13-15 | <.050                                                          | <.050                                                                                   | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                         | <.050                                                                          | <.050                                                                |
| APR 04-04 | <.050                                                          | <.050                                                                                   | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .050                                                                          | <.050                                                                          | <.050                                                                |
| APR 06-06 | <.050                                                          | <.050                                                                                   | .070                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .210                                                                          | .140                                                                           | <.050                                                                |
| MAY 04-05 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | --                                                                   |
| MAY 05-06 | <.050                                                          | .110                                                                                    | 35.2                                                                     | <.0500                                                                         | <.050                                                                    | 2.06                                                                     | 2.05                                                                       | <.050                                                                     | 4.81                                                                          | 1.01                                                                           | 17.8                                                                 |
| DATE      | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)                      | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)              | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)                | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)           | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLURO-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)         | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154)                 |
| DEC 12-14 | <.050                                                          | <.050                                                                                   | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                    | <.050                                                                      | <.0500                                                                    | <.05                                                                          | <.050                                                                          | 85                                                                   |
| DEC 22-22 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | 254                                                                  |
| JAN 08-08 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | 113                                                                  |
| JAN 08-11 | <.050                                                          | <.050                                                                                   | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                    | <.050                                                                      | <.0500                                                                    | <.05                                                                          | <.050                                                                          | 560                                                                  |
| JAN 22-25 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | 438                                                                  |
| JAN 29-29 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | 192                                                                  |
| MAR 10-10 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | 119                                                                  |
| MAR 13-15 | <.050                                                          | <.050                                                                                   | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                    | <.050                                                                      | <.0500                                                                    | <.05                                                                          | <.050                                                                          | 129                                                                  |
| APR 04-04 | 7.36                                                           | <.050                                                                                   | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                    | <.050                                                                      | <.0500                                                                    | <.05                                                                          | <.050                                                                          | 402                                                                  |
| APR 06-06 | 5.17                                                           | <.050                                                                                   | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                    | <.050                                                                      | <.0500                                                                    | <.05                                                                          | <.050                                                                          | 636                                                                  |
| MAY 04-05 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                            | --                                                                             | 1210                                                                 |
| MAY 05-06 | 13.2                                                           | <.050                                                                                   | <.050                                                                    | 4.57                                                                           | <.0500                                                                   | <.050                                                                    | 1.06                                                                       | .120                                                                      | <.05                                                                          | .110                                                                           | 1420                                                                 |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862107 BEASLEY LAKE TRIBUTARY NO 4 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME                                                           | ENDING<br>TIME                                                                  | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613)  | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)    | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                       | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                      | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309)   | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)      |
|--------------|----------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------|
| JAN<br>03-05 | 1945                                                           | 1135                                                                            | .020                                                                     | 1.4                                                                            | .640                                                                     | <.010                                                                     | .120                                                                        | .360                                                                        | 10                                                                            | <.050                                                                         | <.050                                                               |
| JAN<br>09-10 | 0756                                                           | 1439                                                                            | .020                                                                     | 1.1                                                                            | .680                                                                     | <.010                                                                     | .090                                                                        | .280                                                                        | 7.8                                                                           | <.050                                                                         | <.050                                                               |
| JAN<br>29-31 | 0825                                                           | 1529                                                                            | .020                                                                     | .98                                                                            | 1.20                                                                     | <.010                                                                     | .080                                                                        | .200                                                                        | 7.8                                                                           | <.050                                                                         | <.050                                                               |
| FEB<br>27-27 | 0445                                                           | 2037                                                                            | .100                                                                     | 1.3                                                                            | .560                                                                     | <.010                                                                     | .140                                                                        | .310                                                                        | 11                                                                            | <.050                                                                         | <.050                                                               |
| MAR<br>11-11 | 0051                                                           | 1351                                                                            | .030                                                                     | 1.7                                                                            | 1.20                                                                     | .020                                                                      | .140                                                                        | .450                                                                        | 10                                                                            | <.050                                                                         | <.050                                                               |
| MAR<br>16-16 | 0952                                                           | 2359                                                                            | .030                                                                     | 1.5                                                                            | 1.00                                                                     | .010                                                                      | .120                                                                        | .440                                                                        | 8.9                                                                           | <.050                                                                         | <.050                                                               |
| MAR<br>19-20 | 0235                                                           | 1235                                                                            | .020                                                                     | 1.6                                                                            | .320                                                                     | <.010                                                                     | .110                                                                        | .490                                                                        | 7.0                                                                           | <.050                                                                         | <.050                                                               |
| MAR<br>29-30 | 1624                                                           | 1240                                                                            | .030                                                                     | 1.6                                                                            | .360                                                                     | <.010                                                                     | .120                                                                        | .510                                                                        | 13                                                                            | <.050                                                                         | <.050                                                               |
| APR<br>01-05 | 1837                                                           | 1325                                                                            | .120                                                                     | 2.0                                                                            | .250                                                                     | .010                                                                      | .130                                                                        | .780                                                                        | 3.8                                                                           | <.050                                                                         | <.050                                                               |
| APR<br>05-10 | 1358                                                           | 1258                                                                            | .130                                                                     | 1.4                                                                            | .290                                                                     | .010                                                                      | .100                                                                        | .450                                                                        | 5.4                                                                           | <.050                                                                         | <.050                                                               |
| APR<br>10-12 | 1352                                                           | 0052                                                                            | .130                                                                     | 1.2                                                                            | .030                                                                     | <.010                                                                     | .220                                                                        | .680                                                                        | 11                                                                            | <.050                                                                         | <.050                                                               |
| APR<br>12-13 | 0152                                                           | 1223                                                                            | .100                                                                     | 1.3                                                                            | .060                                                                     | <.010                                                                     | .130                                                                        | .630                                                                        | 8.2                                                                           | <.050                                                                         | <.050                                                               |
| JUN<br>05-05 | 1035                                                           | 1602                                                                            | .900                                                                     | 1.8                                                                            | 11.0                                                                     | .200                                                                      | .130                                                                        | .270                                                                        | 6.5                                                                           | <.050                                                                         | <.050                                                               |
| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3- (TRI-<br>FLUORO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(39632)           | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(04041)                | CYANA-<br>ZINE-<br>AMIDE<br>WATER,<br>FLTRD<br>REC,<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER,<br>FLTRD<br>REC,<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER,<br>FLTRD<br>REC,<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER,<br>FLTRD<br>REC,<br>(UG/L)<br>(50380) | FLUO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| JAN<br>03-05 | <.050                                                          | <.050                                                                           | .050                                                                     | <.050                                                                          | <.050                                                                    | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.050                                                                         | <.050                                                                         | <.050                                                               |
| JAN<br>09-10 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.050                                                                    | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.050                                                                         | <.050                                                                         | <.050                                                               |
| JAN<br>29-31 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.050                                                                    | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.050                                                                         | <.050                                                                         | <.050                                                               |
| FEB<br>27-27 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.050                                                                    | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.050                                                                         | <.050                                                                         | <.050                                                               |
| MAR<br>11-11 | <.050                                                          | <.050                                                                           | .230                                                                     | <.050                                                                          | <.050                                                                    | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.050                                                                         | <.050                                                                         | <.050                                                               |
| MAR<br>16-16 | <.050                                                          | <.050                                                                           | .070                                                                     | <.050                                                                          | <.050                                                                    | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.050                                                                         | .220                                                                          | <.050                                                               |
| MAR<br>19-20 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.050                                                                    | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.050                                                                         | <.050                                                                         | <.050                                                               |
| MAR<br>29-30 | <.050                                                          | <.050                                                                           | .060                                                                     | <.050                                                                          | .090                                                                     | <.050                                                                     | .05                                                                         | <.050                                                                       | .150                                                                          | <.050                                                                         | <.050                                                               |
| APR<br>01-05 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | .150                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | .110                                                                          | <.050                                                                         | <.050                                                               |
| APR<br>05-10 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | .140                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | .170                                                                          | .100                                                                          | .070                                                                |
| APR<br>10-12 | <.050                                                          | <.050                                                                           | .050                                                                     | <.050                                                                          | <.050                                                                    | <.050                                                                     | <.05                                                                        | <.050                                                                       | .080                                                                          | .220                                                                          | <.050                                                               |
| APR<br>12-13 | <.050                                                          | <.050                                                                           | .060                                                                     | <.050                                                                          | <.050                                                                    | <.050                                                                     | <.05                                                                        | <.050                                                                       | .090                                                                          | .230                                                                          | <.050                                                               |
| JUN<br>05-05 | <.050                                                          | <.050                                                                           | 2.02                                                                     | 4.42                                                                           | 1.26                                                                     | 1.1                                                                       | .87                                                                         | <.050                                                                       | .890                                                                          | .420                                                                          | 1.21                                                                |
| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>SENSOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)              | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)              | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)                | PRO-<br>RAZON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)            | PROP-<br>ANIL<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS,<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)               | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)          | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>SUS-<br>PENLTD<br>(UG/L)<br>(50473)  | SEDI-<br>MENT,<br>SUS-<br>PENLTD<br>(MG/L)<br>(80154)               |
| JAN<br>03-05 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 173                                                                 |
| JAN<br>09-10 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 106                                                                 |
| JAN<br>29-31 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 52                                                                  |
| FEB<br>27-27 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 119                                                                 |
| MAR<br>11-11 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 204                                                                 |
| MAR<br>16-16 | <.050                                                          | <.050                                                                           | <.050                                                                    | .050                                                                           | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 250                                                                 |
| MAR<br>19-20 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 336                                                                 |
| MAR<br>29-30 | <.050                                                          | <.050                                                                           | <.050                                                                    | .050                                                                           | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 314                                                                 |
| APR<br>01-05 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 636                                                                 |
| APR<br>05-10 | .310                                                           | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 266                                                                 |
| APR<br>10-12 | <.050                                                          | <.050                                                                           | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 146                                                                 |
| APR<br>12-13 | <.050                                                          | <.050                                                                           | <.050                                                                    | .070                                                                           | <.05                                                                     | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 111                                                                 |
| JUN<br>05-05 | .360                                                           | <.050                                                                           | <.050                                                                    | .060                                                                           | .83                                                                      | <.050                                                                     | <.05                                                                        | <.050                                                                       | <.05                                                                          | <.050                                                                         | 95                                                                  |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862108 BEASLEY LAKE TRIBUTARY NO 1 NEAR INDIANOLA, MS

LOCATION.--Lat 33°23'37", long 90°40'55", in NW¼ SE¼ sec.23, T.18 N., R.5 W., Choctaw Meridian, Sunflower County, Hydrologic Unit 08030207, on tributary approximately 0.2 mi upstream of Beasley Lake, approximately 0.6 mi southeast of Big Sunflower River levee, and 3.4 mi southwest of Indianola.

DRAINAGE AREA.--0.16 mi<sup>2</sup> (100 acres).

PERIOD OF RECORD.--Water years 1996 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 104.50 ft above sea level. Automatic pumping water-quality and sediment samplers since August 1996.

## GRAB SAMPLE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE      | TIME  | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                              | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)                            | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)               | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L)<br>AS N)<br>(00608) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L)<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L)<br>AS N)<br>(00613)  | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L)<br>AS P)<br>(00671)  | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L)<br>AS P)<br>(00665)                         | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS C)<br>(00680)                   |
|-----------|-------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| APR 29... | 1400  | 9.0                                                                         | 6.2                                                                  | 67                                                                                      | 16.5                                                          | .280                                                                      | 2.8                                                                            | 2.60                                                                      | .040                                                                       | .080                                                                       | .930                                                                           | 11                                                                          |
| MAY 11... | 0930  | 7.5                                                                         | 6.4                                                                  | 114                                                                                     | 19.5                                                          | .070                                                                      | 5.3                                                                            | 6.10                                                                      | .040                                                                       | .140                                                                       | 1.60                                                                           | 11                                                                          |
| DATE      |       | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342)       | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>WATER,<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)            | CYANA-<br>ZINE-<br>AMIDE<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(61709)        | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)  | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379)    | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) |
| APR 29... | <.050 | <.050                                                                       | .150                                                                 | .100                                                                                    | .080                                                          | <.050                                                                     | <.050                                                                          | .39                                                                       | <.050                                                                      | .610                                                                       | .130                                                                           |                                                                             |
| MAY 11... | <.050 | <.050                                                                       | .390                                                                 | .120                                                                                    | .130                                                          | .060                                                                      | <.050                                                                          | .38                                                                       | <.050                                                                      | 2.53                                                                       | <.050                                                                          |                                                                             |
| DATE      |       | FLUO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710)         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)            | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)                                | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)   | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)           | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)                 | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)               | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)              | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154)                        |
| APR 29... | 5.08  | 4.47                                                                        | <.050                                                                | <.050                                                                                   | .240                                                          | .07                                                                       | <.050                                                                          | <.05                                                                      | <.050                                                                      | <.050                                                                      | 1950                                                                           |                                                                             |
| MAY 11... | 38.8  | 13.7                                                                        | <.050                                                                | .120                                                                                    | <.050                                                         | <.05                                                                      | <.050                                                                          | <.05                                                                      | <.050                                                                      | <.050                                                                      | 2020                                                                           |                                                                             |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862108 BEASLEY LAKE TRIBUTARY NO 1 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

|              |                                                                |                                                                                         | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                     | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309)    | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |
|--------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|
| DATE         | TIME                                                           | ENDING<br>TIME                                                                          |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |                                                                      |
| MAR<br>18-18 | 1929                                                           | 2211                                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | --                                                                   |
| MAY<br>02-02 | 1529                                                           | 2222                                                                                    | .450                                                                     | 20                                                                             | 2.80                                                                     | .010                                                                     | .070                                                                       | 3.60                                                                      | 7.2                                                                          | <.050                                                                          | <.0500                                                               |
| JUN<br>09-10 | 1551                                                           | 2345                                                                                    | .014                                                                     | 6.8                                                                            | 1.40                                                                     | .035                                                                     | .100                                                                       | 2.50                                                                      | 3.1                                                                          | <.050                                                                          | <.0500                                                               |
| JUL<br>08-08 | 1839                                                           | 2319                                                                                    | .130                                                                     | 5.3                                                                            | .820                                                                     | .046                                                                     | .110                                                                       | 1.50                                                                      | 5.7                                                                          | 1.89                                                                           | <.0500                                                               |
| AUG<br>09-09 | 0605                                                           | 2319                                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | <.050                                                                          | <.0500                                                               |
| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>WATER,<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE-<br>AMIDE<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(61709)  | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380)    | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| MAR<br>18-18 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | --                                                                   |
| MAY<br>02-02 | <.050                                                          | .290                                                                                    | .130                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | .160                                                                       | <.050                                                                     | 4.51                                                                         | 1.38                                                                           | 15.2                                                                 |
| JUN<br>09-10 | <.050                                                          | .110                                                                                    | .080                                                                     | .160                                                                           | .120                                                                     | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .950                                                                         | <.050                                                                          | 3.77                                                                 |
| JUL<br>08-08 | <.050                                                          | .050                                                                                    | <.050                                                                    | 16.5                                                                           | .340                                                                     | <.0500                                                                   | .210                                                                       | .320                                                                      | .630                                                                         | 2.51                                                                           | 1.78                                                                 |
| AUG<br>09-09 | <.050                                                          | <.050                                                                                   | <.050                                                                    | 22.8                                                                           | 5.94                                                                     | <.0500                                                                   | .140                                                                       | .050                                                                      | <.050                                                                        | <.050                                                                          | .180                                                                 |
| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)                                | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)              | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)                | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)           | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLURO-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)        | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154)                 |
| MAR<br>18-18 | --                                                             | --                                                                                      | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | 4020                                                                 |
| MAY<br>02-02 | 5.97                                                           | .060                                                                                    | <.050                                                                    | .310                                                                           | .0500                                                                    | <.050                                                                    | <.050                                                                      | <.0500                                                                    | <.05                                                                         | <.050                                                                          | 12300                                                                |
| JUN<br>09-10 | 1.21                                                           | .050                                                                                    | .080                                                                     | <.050                                                                          | <.0500                                                                   | <.050                                                                    | <.050                                                                      | <.0500                                                                    | <.05                                                                         | <.050                                                                          | 4400                                                                 |
| JUL<br>08-08 | 1.95                                                           | <.050                                                                                   | .130                                                                     | .720                                                                           | 10.5                                                                     | <.050                                                                    | <.050                                                                      | .310                                                                      | <.05                                                                         | <.050                                                                          | 3110                                                                 |
| AUG<br>09-09 | .100                                                           | <.050                                                                                   | <.050                                                                    | <.050                                                                          | .590                                                                     | <.050                                                                    | <.050                                                                      | .0600                                                                     | <.05                                                                         | <.050                                                                          | 844                                                                  |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

313

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862108 BEASLEY LAKE TRIBUTARY NO 1 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

| DATE         | TIME                                                           | ENDING<br>TIME                                                                | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                     | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |
|--------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|
|              |                                                                |                                                                               |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                             |                                                                      |
| OCT<br>24-24 | 0024                                                           | 0913                                                                          | .290                                                                     | 2.2                                                                            | 1.20                                                                     | .054                                                                     | .560                                                                       | .880                                                                      | 8.5                                                                          | <.050                                                                       | <.0500                                                               |
| OCT<br>31-31 | 0937                                                           | 1616                                                                          | .250                                                                     | 3.6                                                                            | .530                                                                     | .025                                                                     | .330                                                                       | 1.50                                                                      | 6.2                                                                          | <.050                                                                       | <.0500                                                               |
| NOV<br>28-29 | 2138                                                           | 1220                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| DEC<br>03-03 | 0835                                                           | 1122                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| DEC<br>21-21 | 0638                                                           | 1636                                                                          | .024                                                                     | 2.1                                                                            | .380                                                                     | <.010                                                                    | .190                                                                       | .970                                                                      | 5.4                                                                          | <.050                                                                       | <.0500                                                               |
| DEC<br>23-24 | 1639                                                           | 1534                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN<br>04-05 | 2355                                                           | 0625                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN<br>06-06 | 1038                                                           | 1725                                                                          | .026                                                                     | 1.4                                                                            | .310                                                                     | <.010                                                                    | .160                                                                       | .420                                                                      | 6.0                                                                          | --                                                                          | --                                                                   |
| JAN<br>12-12 | 0047                                                           | 0547                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN<br>15-16 | 1441                                                           | 0309                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN<br>21-22 | 2241                                                           | 0936                                                                          | <.010                                                                    | .98                                                                            | .150                                                                     | <.010                                                                    | .080                                                                       | .420                                                                      | 5.9                                                                          | <.050                                                                       | <.0500                                                               |
| JAN<br>26-26 | 1259                                                           | 1450                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| FEB<br>15-15 | 2210                                                           | 2322                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| FEB<br>16-17 | 2228                                                           | 0032                                                                          | <.010                                                                    | 2.3                                                                            | .340                                                                     | <.010                                                                    | .110                                                                       | .960                                                                      | 6.8                                                                          | --                                                                          | --                                                                   |
| FEB<br>26-26 | 1132                                                           | 2036                                                                          | .012                                                                     | 4.0                                                                            | .220                                                                     | <.010                                                                    | .070                                                                       | 1.30                                                                      | 13                                                                           | <.050                                                                       | <.0500                                                               |
| MAR<br>07-08 | 1303                                                           | 1936                                                                          | .026                                                                     | 11                                                                             | .290                                                                     | <.010                                                                    | .090                                                                       | 5.20                                                                      | 16                                                                           | <.050                                                                       | <.0500                                                               |
| MAR<br>16-17 | 2117                                                           | 0405                                                                          | .031                                                                     | 3.6                                                                            | .290                                                                     | <.010                                                                    | .110                                                                       | 1.50                                                                      | 7.4                                                                          | <.050                                                                       | <.0500                                                               |
| APR<br>28-28 | 0310                                                           | 0330                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| MAY<br>29-30 | 0200                                                           | 0048                                                                          | .150                                                                     | 1.8                                                                            | 4.70                                                                     | .067                                                                     | .140                                                                       | .950                                                                      | 7.4                                                                          | <.050                                                                       | <.0500                                                               |
| JUN<br>05-05 | 1224                                                           | 1318                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JUL<br>13-13 | 0340                                                           | 1656                                                                          | .380                                                                     | 2.1                                                                            | 1.50                                                                     | .088                                                                     | .210                                                                       | .860                                                                      | 8.6                                                                          | <.050                                                                       | <.0500                                                               |
| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)   | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| OCT<br>24-24 | <.050                                                          | <.050                                                                         | .070                                                                     | .960                                                                           | .760                                                                     | <.0500                                                                   | .240                                                                       | <.050                                                                     | .210                                                                         | .210                                                                        | .320                                                                 |
| OCT<br>31-31 | <.050                                                          | <.050                                                                         | <.050                                                                    | .140                                                                           | .720                                                                     | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                        | <.050                                                                       | .070                                                                 |
| NOV<br>28-29 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| DEC<br>03-03 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| DEC<br>21-21 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                        | <.050                                                                       | <.050                                                                |
| DEC<br>23-24 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN<br>04-05 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN<br>06-06 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN<br>12-12 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN<br>15-16 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JAN<br>21-22 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.0500                                                                         | .150                                                                     | <.0500                                                                   | .0900                                                                      | <.050                                                                     | <.050                                                                        | <.050                                                                       | <.050                                                                |
| JAN<br>26-26 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| FEB<br>15-15 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| FEB<br>16-17 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| FEB<br>26-26 | <.050                                                          | <.050                                                                         | <.050                                                                    | <.0500                                                                         | .120                                                                     | <.0500                                                                   | .230                                                                       | <.050                                                                     | <.050                                                                        | <.050                                                                       | .050                                                                 |
| MAR<br>07-08 | <.050                                                          | <.050                                                                         | <.050                                                                    | .0500                                                                          | <.050                                                                    | <.0500                                                                   | .200                                                                       | <.050                                                                     | .120                                                                         | <.050                                                                       | .050                                                                 |
| MAR<br>16-17 | <.050                                                          | <.050                                                                         | <.050                                                                    | .0800                                                                          | <.050                                                                    | <.0500                                                                   | .420                                                                       | <.050                                                                     | .300                                                                         | 1.45                                                                        | .080                                                                 |
| APR<br>28-28 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| MAY<br>29-30 | <.050                                                          | .150                                                                          | .180                                                                     | .0500                                                                          | <.050                                                                    | .110                                                                     | .300                                                                       | <.050                                                                     | 3.62                                                                         | .770                                                                        | 9.15                                                                 |
| JUN<br>05-05 | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                   |
| JUL<br>13-13 | <.050                                                          | .090                                                                          | .060                                                                     | 176                                                                            | 17.8                                                                     | <.0500                                                                   | .340                                                                       | <.050                                                                     | 1.51                                                                         | 1.17                                                                        | 1.06                                                                 |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862108 BEASLEY LAKE TRIBUTARY NO 1 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

| DATE      | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-----------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------|
| OCT 24-24 | .130                                                      | <.050                                                    | <.050                                                       | .120                                                            | .980                                                           | <.050                                                       | <.050                                                       | .180                                                          | <.05                                                                 | <.050                                                                           | 311                                                  |
| OCT 31-31 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | .0800                                                          | <.050                                                       | <.050                                                       | .0900                                                         | <.05                                                                 | <.050                                                                           | 1170                                                 |
| NOV 28-29 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 612                                                  |
| DEC 03-03 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 295                                                  |
| DEC 21-21 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 709                                                  |
| DEC 23-24 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 418                                                  |
| JAN 04-05 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 501                                                  |
| JAN 06-06 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 305                                                  |
| JAN 12-12 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 387                                                  |
| JAN 15-16 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 398                                                  |
| JAN 21-22 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 279                                                  |
| JAN 26-26 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 342                                                  |
| FEB 15-15 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 669                                                  |
| FEB 16-17 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 776                                                  |
| FEB 26-26 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 2350                                                 |
| MAR 07-08 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 4810                                                 |
| MAR 16-17 | .120                                                      | <.050                                                    | <.050                                                       | .350                                                            | .0500                                                          | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1900                                                 |
| APR 28-28 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1600                                                 |
| MAY 29-30 | .110                                                      | <.050                                                    | .050                                                        | .240                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1840                                                 |
| JUN 05-05 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 7930                                                 |
| JUL 13-13 | .070                                                      | <.050                                                    | <.050                                                       | .340                                                            | .0500                                                          | <.050                                                       | <.050                                                       | .450                                                          | <.05                                                                 | <.050                                                                           | 1940                                                 |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862108 BEASLEY LAKE TRIBUTARY NO 1 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

| DATE         | TIME | ENDING<br>TIME | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260) |
|--------------|------|----------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------|
| DEC<br>11-12 | 2003 | 1843           | .029                                                                     | .94                                                                            | 2.80                                                                     | .011                                                                     | .210                                                                     | .500                                                  | 6.6                                                      | <.050                                                                       | <.0500                                                         |
| DEC<br>21-22 | 2228 | 1205           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JAN<br>08-08 | 0638 | 1125           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JAN<br>08-09 | 1900 | 1215           | .034                                                                     | 5.2                                                                            | .480                                                                     | <.010                                                                    | .090                                                                     | 2.00                                                  | 5.4                                                      | <.050                                                                       | --                                                             |
| JAN<br>22-23 | 0730 | 0338           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JAN<br>29-30 | 0342 | 0558           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| FEB<br>27-27 | 1549 | 1828           | .018                                                                     | 4.7                                                                            | .260                                                                     | <.010                                                                    | .070                                                                     | 1.80                                                  | --                                                       | <.050                                                                       | <.0500                                                         |
| MAR<br>02-03 | 1538 | 0038           | .028                                                                     | .20                                                                            | .320                                                                     | <.010                                                                    | .080                                                                     | 1.60                                                  | --                                                       | <.050                                                                       | .0700                                                          |
| MAR<br>08-08 | 1951 | 2226           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| MAR<br>12-14 | 2236 | 0104           | .020                                                                     | 1.0                                                                            | .060                                                                     | <.010                                                                    | .110                                                                     | .390                                                  | 10                                                       | <.050                                                                       | <.0500                                                         |
| APR<br>03-04 | 2319 | 0308           | <.010                                                                    | 3.6                                                                            | 1.70                                                                     | .020                                                                     | .210                                                                     | 1.60                                                  | 8.7                                                      | <.050                                                                       | <.0500                                                         |
| APR<br>05-06 | 2323 | 0544           | <.010                                                                    | 4.9                                                                            | .730                                                                     | .020                                                                     | .120                                                                     | 5.10                                                  | 7.3                                                      | <.050                                                                       | <.0500                                                         |
| APR<br>14-15 | 2115 | 0252           | .030                                                                     | 14                                                                             | .940                                                                     | .040                                                                     | .120                                                                     | 6.20                                                  | 13                                                       | <.050                                                                       | <.0500                                                         |
| MAY<br>04-05 | 1914 | 0227           | .040                                                                     | 7.9                                                                            | .810                                                                     | .040                                                                     | .140                                                                     | 4.70                                                  | 9.2                                                      | <.050                                                                       | <.0500                                                         |
| MAY<br>05-06 | 1811 | 0701           | <.010                                                                    | 15                                                                             | 1.70                                                                     | .040                                                                     | .100                                                                     | 7.70                                                  | 6.7                                                      | <.050                                                                       | <.0500                                                         |
| MAY<br>30-30 | 1609 | 1711           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| MAY<br>31-31 | 0530 | 2300           | 1.50                                                                     | 7.3                                                                            | 3.50                                                                     | .300                                                                     | .200                                                                     | 1.90                                                  | 7.9                                                      | <.050                                                                       | <.0500                                                         |
| JUN<br>02-02 | 0302 | 0952           | 1.30                                                                     | 8.3                                                                            | 2.60                                                                     | .200                                                                     | .160                                                                     | 2.90                                                  | 7.7                                                      | <.050                                                                       | <.0500                                                         |
| JUN<br>23-23 | 1426 | 1441           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JUN<br>25-26 | 1658 | 0441           | .300                                                                     | 6.0                                                                            | 3.40                                                                     | .070                                                                     | .150                                                                     | 2.30                                                  | 6.2                                                      | <.050                                                                       | --                                                             |
| AUG<br>04-04 | 0448 | 1315           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | <.050                                                                       | <.0500                                                         |
| AUG<br>15-15 | 0136 | 1703           | .050                                                                     | .39                                                                            | .270                                                                     | .010                                                                     | .080                                                                     | .170                                                  | 6.2                                                      | <.050                                                                       | <.0500                                                         |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862108 BEASLEY LAKE TRIBUTARY NO 1 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

| DATE      | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(04041) | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLUO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
|-----------|----------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|
| DEC 11-12 | <.050                                                          | <.050                                                                         | <.050                                                          | .690                                                            | .900                                                                   | <.0500                                                                   | .100                                                                       | <.050                                                                     | .260                                                                        | .870                                                                        | .070                                                                |
| DEC 21-22 | --                                                             | --                                                                            | --                                                             | --                                                              | --                                                                     | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| JAN 08-08 | --                                                             | --                                                                            | --                                                             | --                                                              | --                                                                     | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| JAN 08-09 | <.050                                                          | <.050                                                                         | <.050                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | .100                                                                       | <.050                                                                     | <.050                                                                       | <.050                                                                       | <.050                                                               |
| JAN 22-23 | --                                                             | --                                                                            | --                                                             | --                                                              | --                                                                     | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| JAN 29-30 | --                                                             | --                                                                            | --                                                             | --                                                              | --                                                                     | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| FEB 27-27 | <.050                                                          | <.050                                                                         | <.050                                                          | .760                                                            | .330                                                                   | <.0500                                                                   | .190                                                                       | <.050                                                                     | <.050                                                                       | <.050                                                                       | <.050                                                               |
| MAR 02-03 | <.050                                                          | <.050                                                                         | <.050                                                          | .880                                                            | .340                                                                   | <.0500                                                                   | .300                                                                       | <.050                                                                     | .050                                                                        | .950                                                                        | <.050                                                               |
| MAR 08-08 | --                                                             | --                                                                            | --                                                             | --                                                              | --                                                                     | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| MAR 12-14 | <.050                                                          | <.050                                                                         | <.050                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | .0700                                                                      | <.050                                                                     | <.050                                                                       | <.050                                                                       | <.050                                                               |
| APR 03-04 | <.050                                                          | <.050                                                                         | <.050                                                          | .480                                                            | .610                                                                   | <.0500                                                                   | .260                                                                       | <.050                                                                     | .190                                                                        | 1.03                                                                        | <.050                                                               |
| APR 05-06 | <.050                                                          | <.050                                                                         | .080                                                           | .370                                                            | .340                                                                   | <.0500                                                                   | .350                                                                       | <.050                                                                     | .200                                                                        | .360                                                                        | <.050                                                               |
| APR 14-15 | <.050                                                          | <.050                                                                         | .150                                                           | .0900                                                           | <.050                                                                  | <.0500                                                                   | .340                                                                       | <.050                                                                     | .050                                                                        | <.050                                                                       | <.050                                                               |
| MAY 04-05 | <.050                                                          | <.050                                                                         | .110                                                           | .0700                                                           | <.050                                                                  | <.0500                                                                   | .200                                                                       | <.050                                                                     | .220                                                                        | .120                                                                        | 6.08                                                                |
| MAY 05-06 | <.050                                                          | .120                                                                          | .300                                                           | .0600                                                           | <.050                                                                  | .0500                                                                    | .230                                                                       | <.050                                                                     | 1.24                                                                        | .390                                                                        | 17.3                                                                |
| MAY 30-30 | --                                                             | --                                                                            | --                                                             | --                                                              | --                                                                     | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| MAY 31-31 | <.050                                                          | .330                                                                          | <.050                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 4.60                                                                        | .720                                                                        | 33.0                                                                |
| JUN 02-02 | <.050                                                          | .170                                                                          | <.050                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | .300                                                                       | <.050                                                                     | 4.75                                                                        | <.050                                                                       | 38.9                                                                |
| JUN 23-23 | --                                                             | --                                                                            | --                                                             | --                                                              | --                                                                     | --                                                                       | --                                                                         | --                                                                        | --                                                                          | --                                                                          | --                                                                  |
| JUN 25-26 | <.050                                                          | .080                                                                          | <.050                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | .320                                                                      | 3.12                                                                        | <.050                                                                       | 13.8                                                                |
| AUG 04-04 | <.050                                                          | <.050                                                                         | <.050                                                          | .410                                                            | .200                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | <.050                                                                       | <.050                                                                       | .420                                                                |
| AUG 15-15 | <.050                                                          | <.050                                                                         | <.050                                                          | .360                                                            | 1.01                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | .630                                                                        | .090                                                                        | 1.82                                                                |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

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## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862108 BEASLEY LAKE TRIBUTARY NO 1 NEAR INDIANOLA, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

| DATE      | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL-<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDEDED<br>(MG/L)<br>(80154) |
|-----------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------|
| DEC 11-12 | <.050                                                     | <.050                                                    | <.050                                                       | .220                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 216                                                     |
| DEC 21-22 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                               | 1130                                                    |
| JAN 08-08 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                               | 1050                                                    |
| JAN 08-09 | <.050                                                     | .060                                                     | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 2230                                                    |
| JAN 22-23 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                               | 2250                                                    |
| JAN 29-30 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                               | 1040                                                    |
| FEB 27-27 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 2720                                                    |
| MAR 02-03 | <.050                                                     | <.050                                                    | <.050                                                       | .100                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 1910                                                    |
| MAR 08-08 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                               | 1320                                                    |
| MAR 12-14 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 477                                                     |
| APR 03-04 | <.050                                                     | <.050                                                    | <.050                                                       | .190                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 1470                                                    |
| APR 05-06 | <.050                                                     | <.050                                                    | <.050                                                       | .060                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 6070                                                    |
| APR 14-15 | .090                                                      | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | .060                                                                             | 6910                                                    |
| MAY 04-05 | .120                                                      | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 5030                                                    |
| MAY 05-06 | .160                                                      | <.050                                                    | <.050                                                       | .070                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 8180                                                    |
| MAY 30-30 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                               | 19300                                                   |
| MAY 31-31 | <.050                                                     | <.050                                                    | <.050                                                       | .070                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 2510                                                    |
| JUN 02-02 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 4450                                                    |
| JUN 23-23 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                               | 14000                                                   |
| JUN 25-26 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | 2.06                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | .080                                                                             | 2920                                                    |
| AUG 04-04 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 44                                                      |
| AUG 15-15 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | .130                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                            | 38                                                      |

## 0728862108 BEASLEY LAKE TRIBUTARY NO 1 NEAR INDIANOLA, MS--Continued

GRAB SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|--------------|------|-------------------------------------------------------|
| MAR<br>19... | 1314 | 2310                                                  |

COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[illegible][illegible][illegible]

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862108 BEASLEY LAKE TRIBUTARY NO 1 NEAR INDIANOLA, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|--------------|------|-------------------------------------------------------|
| MAR<br>19... | 1313 | 1970                                                  |



## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS

LOCATION.--Lat 33°21'02", long 90°30'08", in NW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec.3, T.17 N., R.3 W., Choctaw Meridian, Sunflower County, Hydrologic Unit 08030207, on tributary approximately 300 ft upstream of Thighman Lake, approximately 6 mi south of Moorhead, 0.2 mi west of Three Mile Lake, and 5 mi east of Inverness.

DRAINAGE AREA.--0.02 mi<sup>2</sup> (14.4 acres).

PERIOD OF RECORD.--Water years 1996 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 110.6 ft above sea level. Automatic pumping water-quality and sediment samplers since April 1996.

REMARKS.--Unpublished records of gage height and discharge during selected storm events are available in files of District office. Occasionally, records of gage height and discharge were not computed due to backwater or malfunction of the instruments.

WATER YEAR 1996: No estimated discharges. Discharge records good.

WATER YEAR 1997: Estimated discharges: Dec. 27 - Jan 1, Apr. 27 and June 12-13. Records good except for estimated discharges, which are poor.

WATER YEAR 1998: No estimated discharges. Discharge records good.

WATER YEAR 1999: No estimated discharges. Discharge records good.

WATER YEAR 2000: No estimated discharges. Discharge records good. Discharges during summer months may be due to irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined due to overtopping of berm, Apr. 1, 2000, gage height 2.52 ft, at time of overtopping, maximum gage height, 2.52 ft, Apr. 1; no flow for many days during each year.

EXTREMES FOR CURRENT YEAR.--

WATER YEAR 1996: Maximum discharge during period April to September, 12 ft<sup>3</sup>/s, June 1, gage height, 2.00 ft; no flow for many days during year.

WATER YEAR 1997: Maximum discharge 17 ft<sup>3</sup>/s, May 2, gage height 2.04 ft; no flow for many days during year.

WATER YEAR 1998: Maximum discharge 19 ft<sup>3</sup>/s, May 29, gage height 2.46 ft; no flow for many days during year.

WATER YEAR 1999: Maximum discharge 10 ft<sup>3</sup>/s, Jan. 29, gage height, 1.91 ft; no flow for many days during year.

WATER YEAR 2000: Maximum discharge not determined due to overtopping of berm, Apr. 1, gage height 2.52 ft at time of overtopping, maximum gage height, 2.52 ft, Apr. 1; no flow for many days during year.

## SELECTED RUNOFF EVENTS, 1996 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 04-22 | 1730 | .12         | 0.04      | 07-16 | 1815 | .05         | --        |
| 04-22 | 1745 | .44         | 0.44      | 07-16 | 1830 | .21         | 0.11      |
| 04-22 | 1800 | .98         | 2.3       | 07-16 | 1835 | .38         | 0.33      |
| 04-22 | 1815 | .88         | 1.8       | 07-16 | 1840 | .37         | 0.31      |
| 04-22 | 1830 | .87         | 1.8       | 07-16 | 1845 | .38         | 0.33      |
| 04-22 | 1845 | .85         | 1.7       | 07-16 | 1850 | .32         | 0.24      |
| 04-22 | 1900 | .93         | 2.1       | 07-16 | 1855 | .28         | 0.18      |
| 04-22 | 1915 | 1.04        | 2.6       | 07-16 | 1900 | .53         | 0.63      |
| 04-22 | 1930 | .94         | 2.1       | 07-16 | 1905 | .66         | 1.00      |
| 04-22 | 1945 | .91         | 2.0       | 07-16 | 1910 | .70         | 1.1       |
| 04-22 | 2000 | .98         | 2.3       | 07-16 | 1915 | .70         | 1.1       |
| 04-22 | 2015 | 1.23        | 3.8       | 07-16 | 1920 | .67         | 1.0       |
| 04-22 | 2030 | 1.54        | 6.3       | 07-16 | 1925 | .64         | 0.94      |
| 04-22 | 2045 | 1.49        | 5.8       | 07-16 | 1930 | .60         | 0.82      |
| 04-22 | 2100 | 1.37        | 4.8       | 07-16 | 1945 | .48         | 0.52      |
| 04-22 | 2115 | 1.27        | 4.1       | 07-16 | 2000 | .48         | 0.52      |
| 04-22 | 2130 | 1.23        | 3.8       | 07-16 | 2015 | .33         | 0.25      |
| 04-22 | 2145 | 1.18        | 3.5       | 07-16 | 2030 | .28         | 0.18      |
| 04-22 | 2200 | 1.13        | 3.1       | 07-16 | 2045 | .24         | 0.14      |
| 04-22 | 2215 | 1.14        | 3.2       | 07-16 | 2100 | .19         | 0.09      |
| 04-22 | 2230 | 1.07        | 2.8       |       |      |             |           |
| 04-22 | 2300 | .86         | 1.7       |       |      |             |           |
| 04-22 | 2330 | .67         | 1.0       |       |      |             |           |
| 04-22 | 2400 | .53         | 0.63      |       |      |             |           |
| 04-23 | 0100 | .35         | 0.28      |       |      |             |           |
| 04-23 | 0200 | .28         | 0.18      |       |      |             |           |
| 04-23 | 0300 | .25         | 0.15      |       |      |             |           |
| 04-23 | 0400 | .23         | 0.13      |       |      |             |           |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## SELECTED RUNOFF EVENTS, 1997 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 01-27 | 2010 | .04         | --        | 07-13 | 1545 | .04         | --        | 08-14 | 1600 | .18         | 0.08      |
| 01-27 | 2015 | .49         | 0.54      | 07-13 | 1550 | .46         | 0.48      | 08-14 | 1605 | .89         | 1.9       |
| 01-27 | 2020 | .81         | 1.5       | 07-13 | 1555 | 1.12        | 3.1       | 08-14 | 1610 | 1.21        | 3.7       |
| 01-27 | 2025 | 1.07        | 2.8       | 07-13 | 1600 | 1.43        | 5.3       | 08-14 | 1615 | 1.46        | 5.6       |
| 01-27 | 2030 | 1.39        | 5.0       | 07-13 | 1605 | 1.51        | 6.0       | 08-14 | 1620 | 1.57        | 6.6       |
| 01-27 | 2035 | 1.61        | 6.9       | 07-13 | 1610 | 1.52        | 6.1       | 08-14 | 1625 | 1.61        | 6.9       |
| 01-27 | 2040 | 1.77        | 8.6       | 07-13 | 1615 | 1.48        | 5.7       | 08-14 | 1630 | 1.61        | 6.9       |
| 01-27 | 2045 | 1.88        | 9.9       | 07-13 | 1620 | 1.42        | 5.2       | 08-14 | 1635 | 1.59        | 6.7       |
| 01-27 | 2050 | 1.93        | 11        | 07-13 | 1625 | 1.31        | 4.4       | 08-14 | 1640 | 1.55        | 6.4       |
| 01-27 | 2055 | 1.95        | 11        | 07-13 | 1630 | 1.16        | 3.3       | 08-14 | 1645 | 1.52        | 6.1       |
| 01-27 | 2100 | 1.95        | 11        | 07-13 | 1635 | .94         | 2.1       | 08-14 | 1650 | 1.51        | 6.0       |
| 01-27 | 2105 | 1.94        | 11        | 07-13 | 1640 | .74         | 1.3       | 08-14 | 1655 | 1.52        | 6.1       |
| 01-27 | 2110 | 1.92        | 10        | 07-13 | 1645 | .65         | 0.97      | 08-14 | 1700 | 1.57        | 6.6       |
| 01-27 | 2115 | 1.91        | 10        | 07-13 | 1700 | .47         | 0.50      | 08-14 | 1710 | 1.62        | 7.0       |
| 01-27 | 2130 | 1.85        | 9.6       | 07-13 | 1715 | .36         | 0.30      | 08-14 | 1715 | 1.62        | 7.0       |
| 01-27 | 2200 | 1.66        | 7.4       | 07-13 | 1730 | .30         | 0.21      | 08-14 | 1720 | 1.60        | 6.8       |
| 01-27 | 2230 | 1.53        | 6.2       | 07-13 | 1745 | .27         | 0.17      | 08-14 | 1725 | 1.57        | 6.6       |
| 01-27 | 2300 | 1.44        | 5.4       | 07-13 | 1800 | .25         | 0.15      | 08-14 | 1730 | 1.52        | 6.1       |
| 01-27 | 2330 | 1.23        | 3.8       | 07-13 | 1830 | .21         | 0.11      | 08-14 | 1745 | 1.31        | 4.4       |
| 01-27 | 2400 | 1.07        | 2.8       | 07-13 | 1900 | .17         | 0.08      | 08-14 | 1800 | .97         | 2.3       |
| 01-28 | 0100 | .96         | 2.2       | 07-13 | 1900 | .17         | 0.08      | 08-14 | 1815 | .84         | 1.7       |
| 01-28 | 0200 | .91         | 2.0       |       |      |             |           | 08-14 | 1830 | .76         | 1.3       |
| 01-28 | 0300 | .70         | 1.1       |       |      |             |           | 08-14 | 1900 | .65         | 0.97      |
| 01-28 | 0400 | .60         | 0.82      |       |      |             |           | 08-14 | 2000 | .53         | 0.63      |
| 01-28 | 0500 | .49         | 0.54      |       |      |             |           | 08-14 | 2100 | .46         | 0.48      |
| 01-27 | 0600 | .41         | 0.38      |       |      |             |           | 08-14 | 2200 | .41         | 0.38      |
| 01-27 | 0700 | .35         | 0.28      |       |      |             |           | 08-14 | 2300 | .37         | 0.31      |
| 01-27 | 0800 | .29         | 0.20      |       |      |             |           | 08-14 | 2400 | .33         | 0.25      |
| 01-27 | 0900 | .26         | 0.16      |       |      |             |           | 08-14 | 0100 | .29         | 0.20      |
| 01-27 | 1000 | .23         | 0.13      |       |      |             |           | 08-14 | 0200 | .27         | 0.17      |

## SELECTED RUNOFF EVENTS, 1998 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 10-23 | 2215 | .24         | 0.14      | 04-28 | 0100 | .25         | 0.15      | 06-05 | 1230 | .05         | --        |
| 10-23 | 2230 | .32         | 0.24      | 04-28 | 0105 | .33         | 0.25      | 06-05 | 1235 | .81         | 1.5       |
| 10-23 | 2300 | .49         | 0.54      | 04-28 | 0110 | .43         | 0.42      | 06-05 | 1240 | 1.10        | 3.0       |
| 10-23 | 2330 | .67         | 1.0       | 04-28 | 0115 | .68         | 1.1       | 06-05 | 1243 | 1.14        | 3.2       |
| 10-23 | 2400 | .92         | 2.0       | 04-28 | 0120 | .98         | 2.3       | 06-05 | 1245 | 1.13        |           |
| 10-24 | 0015 | .97         | 2.3       | 04-28 | 0125 | 1.17        | 3.4       | 06-05 | 1250 | .95         | 2.2       |
| 10-24 | 0030 | .98         | 2.3       | 04-28 | 0130 | 1.35        | 4.7       | 06-05 | 1255 | .74         | 1.3       |
| 10-24 | 0045 | .95         | 2.2       | 04-28 | 0135 | 1.43        | 5.3       | 06-05 | 1300 | .66         | 1.0       |
| 10-24 | 0100 | 1.00        | 2.4       | 04-28 | 0140 | 1.46        | 5.6       | 06-05 | 1315 | .49         | 0.54      |
| 10-24 | 0115 | 1.04        | 2.6       | 04-28 | 0145 | 1.46        | 5.6       | 06-05 | 1330 | .36         | 0.30      |
| 10-24 | 0130 | 1.00        | 2.4       | 04-28 | 0150 | 1.44        | 5.4       | 06-05 | 1345 | .29         | 0.20      |
| 10-24 | 0145 | .92         | 2.0       | 04-28 | 0155 | 1.41        | 5.1       | 06-05 | 1400 | .25         | 0.15      |
| 10-24 | 0200 | .84         | 1.7       | 04-28 | 0200 | 1.37        | 4.8       | 06-05 | 1415 | .22         | 0.12      |
| 10-24 | 0230 | .70         | 1.1       | 04-28 | 0215 | 1.22        | 3.7       |       |      |             |           |
| 10-24 | 0300 | .58         | 0.76      | 04-28 | 0230 | 1.14        | 3.2       |       |      |             |           |
| 10-24 | 0330 | .51         | 0.58      | 04-28 | 0245 | 1.04        | 2.6       |       |      |             |           |
| 10-24 | 0400 | .44         | 0.44      | 04-28 | 0300 | .91         | 2.0       |       |      |             |           |
| 10-24 | 0500 | .37         | 0.31      | 04-28 | 0330 | .73         | 1.2       |       |      |             |           |
| 10-24 | 0600 | .31         | 0.22      | 04-28 | 0400 | .63         | 0.91      |       |      |             |           |
| 10-24 | 0700 | .27         | 0.17      | 04-28 | 0430 | .57         | 0.74      |       |      |             |           |
| 10-24 | 0800 | .24         | 0.14      | 04-28 | 0500 | .53         | 0.63      |       |      |             |           |
| 10-24 | 0900 | .21         | 0.11      | 04-28 | 0600 | .46         | 0.48      |       |      |             |           |
|       |      |             |           | 04-28 | 0700 | .41         | 0.38      |       |      |             |           |
|       |      |             |           | 04-28 | 0800 | .37         | 0.31      |       |      |             |           |
|       |      |             |           | 04-28 | 0900 | .32         | 0.24      |       |      |             |           |
|       |      |             |           | 04-28 | 1000 | .28         | 0.18      |       |      |             |           |
|       |      |             |           | 04-28 | 1100 | .22         | 0.12      |       |      |             |           |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVRNESS, MS--Continued

## SELECTED RUNOFF EVENTS, 1999 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 11-14 | 1230 | .20         | 0.10      | 04-14 | 2115 | .17         | 0.08      | 05-31 | 0815 | .13         | 0.05      |
| 11-14 | 1245 | .41         | 0.38      | 04-14 | 2130 | .33         | 0.25      | 05-31 | 0820 | .21         | 0.11      |
| 11-14 | 1300 | .64         | 0.94      | 04-14 | 2135 | .99         | 2.4       | 05-31 | 0825 | .31         | 0.22      |
| 11-14 | 1315 | .82         | 1.6       | 04-14 | 2140 | 1.36        | 4.7       | 05-31 | 0830 | .44         | 0.44      |
| 11-14 | 1320 | .87         | 1.8       | 04-14 | 2145 | 1.47        | 5.6       | 05-31 | 0835 | .60         | 0.82      |
| 11-14 | 1325 | .89         | 1.9       | 04-14 | 2150 | 1.50        | 5.9       | 05-31 | 0840 | .84         | 1.7       |
| 11-14 | 1330 | .88         | 1.8       | 04-14 | 2155 | 1.50        | 5.9       | 05-31 | 0845 | 1.13        | 3.1       |
| 11-14 | 1345 | .83         | 1.6       | 04-14 | 2200 | 1.59        | 6.7       | 05-31 | 0850 | 1.30        | 4.3       |
| 11-14 | 1400 | .78         | 1.4       | 04-14 | 2205 | 1.66        | 7.4       | 05-31 | 0855 | 1.38        | 4.9       |
| 11-14 | 1415 | .74         | 1.3       | 04-14 | 2210 | 1.71        | 8.0       | 05-31 | 0900 | 1.40        | 5.1       |
| 11-14 | 1430 | .70         | 1.1       | 04-14 | 2215 | 1.71        | 8.0       | 05-31 | 0915 | 1.27        | 4.1       |
| 11-14 | 1500 | .62         | 0.88      | 04-14 | 2220 | 1.69        | 7.8       | 05-31 | 0930 | 1.17        | 3.4       |
| 11-14 | 1530 | .56         | 0.71      | 04-14 | 2225 | 1.66        | 7.5       | 05-31 | 0945 | 1.06        | 2.7       |
| 11-14 | 1600 | .49         | 0.54      | 04-14 | 2230 | 1.16        | 6.9       | 05-31 | 1000 | .92         | 2.0       |
| 11-14 | 1700 | .38         | 0.33      | 04-14 | 2245 | 1.39        | 5.0       | 05-31 | 1015 | .80         | 1.5       |
| 11-14 | 1800 | .31         | 0.22      | 04-14 | 2300 | .94         | 2.1       | 05-31 | 1030 | .70         | 1.1       |
| 11-14 | 1900 | .26         | 0.16      | 04-14 | 2315 | .84         | 1.7       | 05-31 | 1100 | .56         | 0.71      |
| 11-14 | 2000 | .22         | 0.12      | 04-14 | 2330 | .78         | 1.4       | 05-31 | 1130 | .48         | 0.52      |
|       |      |             |           | 04-14 | 2400 | .69         | 1.1       | 05-31 | 1200 | .43         | 0.42      |
|       |      |             |           | 04-15 | 0030 | .62         | 0.88      | 05-31 | 1300 | .36         | 0.30      |
|       |      |             |           | 04-15 | 0100 | .57         | 0.74      | 05-31 | 1400 | .31         | 0.22      |
|       |      |             |           | 04-15 | 0200 | .49         | 0.54      | 05-31 | 1500 | .28         | 0.18      |
|       |      |             |           | 04-15 | 0300 | .42         | 0.40      | 05-31 | 1600 | .30         | 0.21      |
|       |      |             |           | 04-15 | 0400 | .36         | 0.30      | 05-31 | 1700 | .25         | 0.15      |
|       |      |             |           | 04-15 | 0500 | .31         | 0.22      |       |      |             |           |
|       |      |             |           | 04-15 | 0600 | .27         | 0.17      |       |      |             |           |
|       |      |             |           | 04-15 | 0700 | .22         | 0.12      |       |      |             |           |

## SELECTED RUNOFF EVENTS, 2000 WATER YEAR

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 02-13 | 1630 | .14         | 0.05      | 03-27 | 0015 | .11         | 0.04      | 06-17 | 1555 | .06         | --        |
| 02-13 | 1635 | .25         | 0.15      | 03-27 | 0020 | .80         | 1.5       | 06-17 | 1600 | .19         | 0.09      |
| 02-13 | 1640 | .62         | 0.88      | 03-27 | 0025 | 1.16        | 3.3       | 06-17 | 1605 | .31         | 0.22      |
| 02-13 | 1645 | .78         | 1.4       | 03-27 | 0030 | 1.31        | 4.4       | 06-17 | 1610 | .44         | 0.44      |
| 02-13 | 1650 | .88         | 1.8       | 03-27 | 0035 | 1.28        | 4.1       | 06-17 | 1615 | .49         | 0.54      |
| 02-13 | 1655 | .96         | 2.2       | 03-27 | 0040 | 1.21        | 3.7       | 07-17 | 1619 | .50         | 0.56      |
| 02-13 | 1700 | 1.00        | 2.4       | 03-27 | 0045 | 1.10        | 3.0       | 07-17 | 1625 | .47         | 0.50      |
| 02-13 | 1705 | 1.02        | 2.5       | 03-27 | 0050 | 1.05        | 2.7       | 07-17 | 1630 | .44         | 0.44      |
| 02-13 | 1710 | 1.01        | 2.5       | 03-27 | 0055 | 1.08        | 2.8       | 07-17 | 1635 | .40         | 0.36      |
| 02-13 | 1715 | .98         | 2.3       | 03-27 | 0100 | 1.07        | 2.8       | 07-17 | 1640 | .37         | 0.31      |
| 02-13 | 1730 | .83         | 1.6       | 03-27 | 0115 | .97         | 2.3       | 07-17 | 1645 | .36         | 0.30      |
| 02-13 | 1745 | .69         | 1.1       | 03-27 | 0130 | .93         | 2.1       | 07-17 | 1700 | .33         | 0.25      |
| 02-13 | 1800 | .60         | 0.82      | 03-27 | 0145 | .80         | 1.5       | 07-17 | 1715 | .29         | 0.20      |
| 02-13 | 1830 | .50         | 0.56      | 03-27 | 0200 | .71         | 1.2       | 07-17 | 1730 | .26         | 0.16      |
| 02-13 | 1900 | .45         | 0.46      | 03-27 | 0215 | .66         | 1.0       | 07-17 | 1745 | .24         | 0.14      |
| 02-13 | 2000 | .39         | 0.34      | 03-27 | 0230 | .61         | 0.85      | 07-17 | 1800 | .23         | 0.13      |
| 02-13 | 2100 | .35         | 0.28      | 03-27 | 0300 | .53         | 0.63      | 07-17 | 1815 | .22         | 0.12      |
| 02-13 | 2200 | .32         | 0.24      | 03-27 | 0400 | .36         | 0.30      | 07-17 | 1830 | .21         | 0.11      |
| 02-13 | 2300 | .30         | 0.21      | 03-27 | 0500 | .28         | 0.18      |       |      |             |           |
| 02-13 | 2400 | .28         | 0.18      | 03-27 | 0600 | .23         | 0.13      |       |      |             |           |
| 02-14 | 0100 | .26         | 0.16      | 03-27 | 0700 | .20         | 0.10      |       |      |             |           |
| 02-14 | 0200 | .24         | 0.14      |       |      |             |           |       |      |             |           |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## GRAB SAMPLE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400)                 | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)     | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)   | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)      | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)    | PHOS-PHORUS TOTAL (MG/L AS P) (00665)                   | CARBON, ORGANIC TOTAL (MG/L AS C) (00680)              | 3,4-DI-CHLORO-ANILINE WATER FLTRD REC (UG/L) (50309) |
|-------|------|-------------------------------------------------|---------------------------------------------------------------|---------------------------------------------|---------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|
| APR   |      |                                                 |                                                               |                                             |                                                   |                                                         |                                                     |                                                        |                                                      |                                                         |                                                        |                                                      |
| 14... | 2002 | .25                                             | 5.9                                                           | 430                                         | 5.80                                              | 8.2                                                     | 43.0                                                | .110                                                   | .020                                                 | .230                                                    | 7.6                                                    | <.050                                                |
| 14... | 2323 | 3.0                                             | 5.8                                                           | 195                                         | 3.30                                              | 8.7                                                     | 18.0                                                | .040                                                   | .010                                                 | 1.00                                                    | 7.5                                                    | <.050                                                |
| 14... | 2355 | 1.6                                             | 5.9                                                           | 240                                         | 3.50                                              | 7.8                                                     | 23.0                                                | .050                                                   | .010                                                 | .830                                                    | 8.5                                                    | <.050                                                |
| MAY   |      |                                                 |                                                               |                                             |                                                   |                                                         |                                                     |                                                        |                                                      |                                                         |                                                        |                                                      |
| 11... | 0825 | .34                                             | 5.5                                                           | 158                                         | .690                                              | 4.2                                                     | 15.0                                                | .030                                                   | .030                                                 | .900                                                    | 11                                                     | .060                                                 |
| DATE  |      | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)     | ANILINE 3-(TRI-FLURO-METHYL) WATER, DISS, REC, (UG/L) (50307) | ATRA-ZINE, WATER, DISS, REC, (UG/L) (39632) | CYANA-ZINE, WATER, DISS, REC, (UG/L) (04041)      | CYANA-ZINE-AMIDE WATER, FLTRD REC, (UG/L) (61709)       | DEETHYL ATRA-ZINE, WATER, DISS, REC, (UG/L) (04040) | DEISO-PROPYL ATRAZIN, WATER, DISS, REC, (UG/L) (04038) | DEISO-PROPYL-METRYN WATER, FLTRD REC, (UG/L) (50378) | DEMETH-YLFLURO-METURON WATER, FLTRD REC, (UG/L) (50379) | DEMETH-YLNORF-LURAZON WATER, FLTRD REC, (UG/L) (50380) | FLURO-MET-URON WATER FLTRD REC (UG/L) (61710)        |
| APR   |      |                                                 |                                                               |                                             |                                                   |                                                         |                                                     |                                                        |                                                      |                                                         |                                                        |                                                      |
| 14... |      | <.050                                           | .450                                                          | .090                                        | .070                                              | .070                                                    | <.050                                               | .26                                                    | .060                                                 | 9.01                                                    | 2.27                                                   | 24.4                                                 |
| 14... |      | <.050                                           | .260                                                          | .060                                        | <.050                                             | .070                                                    | <.050                                               | .18                                                    | .060                                                 | 6.55                                                    | 1.31                                                   | 14.7                                                 |
| 14... |      | <.050                                           | .340                                                          | .080                                        | .050                                              | .100                                                    | .14                                                 | .15                                                    | .070                                                 | 7.67                                                    | 3.38                                                   | 7.65                                                 |
| MAY   |      |                                                 |                                                               |                                             |                                                   |                                                         |                                                     |                                                        |                                                      |                                                         |                                                        |                                                      |
| 11... |      | <.050                                           | 3.530                                                         | .130                                        | .090                                              | <.050                                                   | <.050                                               | .23                                                    | .060                                                 | 16.82                                                   | 4.59                                                   | 763                                                  |
| DATE  |      | METO-LACHLOR WATER DISSOLV (UG/L) (39415)       | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)               | MOLI-NATE WATER FLTRD REC, (UG/L) (50375)   | NORFLU-RAZONE WATER FLTRD REC, (UG/L) (50332)     | PRO-METRYN, WATER, DISS, REC, (UG/L) (04036)            | PROP-ANIL WATER, FLTRD REC, (UG/L) (50377)          | PROP-AZINE WATER, DISS, REC, (UG/L) (38535)            | SI-MAZINE, WATER, DISS, REC, (UG/L) (04035)          | TRI-FLURO-ALIN WATER, DISS, REC, (UG/L) (38574)         | UREA, 3-TRI-FLURO-METHYL-PHENYL UNFLTRD (UG/L) (50473) | SEDI-MENT, SUS-PENDED (MG/L) (80154)                 |
| APR   |      |                                                 |                                                               |                                             |                                                   |                                                         |                                                     |                                                        |                                                      |                                                         |                                                        |                                                      |
| 14... |      | .050                                            | <.050                                                         | <.050                                       | 1.32                                              | <.05                                                    | <.050                                               | <.05                                                   | <.050                                                | --                                                      | <.050                                                  | 334                                                  |
| 14... |      | <.050                                           | <.050                                                         | <.050                                       | 2.00                                              | .36                                                     | <.050                                               | <.05                                                   | <.050                                                | --                                                      | <.050                                                  | 2160                                                 |
| 14... |      | <.050                                           | <.050                                                         | <.050                                       | 4.39                                              | .23                                                     | <.050                                               | <.05                                                   | <.050                                                | <.05                                                    | <.050                                                  | 1430                                                 |
| MAY   |      |                                                 |                                                               |                                             |                                                   |                                                         |                                                     |                                                        |                                                      |                                                         |                                                        |                                                      |
| 11... |      | .120                                            | <.050                                                         | .340                                        | 41.99                                             | .39                                                     | <.050                                               | <.05                                                   | <.050                                                | --                                                      | <.050                                                  | 1190                                                 |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE  | TIME | ENDING<br>TIME | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260) |
|-------|------|----------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------|
| OCT   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 26-26 | 0255 | 0420           | .010                                                                     | 1.5                                                                            | 1.90                                                                     | <.010                                                                    | .290                                                                     | .650                                                           | --                                                       | <.050                                                                       | <.0500                                                         |
| NOV   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 07-07 | 1440 | 1643           | .092                                                                     | 2.9                                                                            | 1.70                                                                     | .015                                                                     | .230                                                                     | .770                                                           | --                                                       | <.050                                                                       | <.0500                                                         |
| NOV   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 30-30 | 0054 | 0903           | .030                                                                     | 2.3                                                                            | 2.50                                                                     | .014                                                                     | .170                                                                     | .580                                                           | --                                                       | .110                                                                        | <.0500                                                         |
| DEC   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 16-16 | 0758 | 2034           | <.010                                                                    | 2.0                                                                            | 1.80                                                                     | .052                                                                     | .020                                                                     | .230                                                           | --                                                       | <.050                                                                       | <.0500                                                         |
| DEC   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 26-27 | 1245 | 0236           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                       | --                                                                          | --                                                             |
| JAN   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 27-28 | 2119 | 0449           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                       | --                                                                          | --                                                             |
| FEB   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 07-07 | 1231 | 1810           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                       | --                                                                          | --                                                             |
| FEB   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 12-13 | 2050 | 0850           | .016                                                                     | 2.9                                                                            | .300                                                                     | <.010                                                                    | .060                                                                     | .790                                                           | 7.8                                                      | .090                                                                        | <.0500                                                         |
| FEB   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 21-21 | 0343 | 0538           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                       | --                                                                          | --                                                             |
| FEB   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 26-27 | 2129 | 0059           | .092                                                                     | 4.4                                                                            | .180                                                                     | <.010                                                                    | .060                                                                     | 1.20                                                           | --                                                       | <.050                                                                       | <.0500                                                         |
| FEB   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 28-28 | 0056 | 0633           | .086                                                                     | 3.8                                                                            | .100                                                                     | <.010                                                                    | .060                                                                     | 1.10                                                           | --                                                       | <.050                                                                       | <.0500                                                         |
| MAR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 13-13 | 1602 | 1655           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                       | --                                                                          | --                                                             |
| MAR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 18-18 | 1748 | 2336           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                       | --                                                                          | --                                                             |
| APR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 05-05 | 0803 | 1032           | .012                                                                     | 6.4                                                                            | 2.30                                                                     | .018                                                                     | .100                                                                     | 1.10                                                           | --                                                       | <.050                                                                       | <.0500                                                         |
| APR   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 27-28 | 0650 | 0133           | .062                                                                     | 2.3                                                                            | 4.20                                                                     | .025                                                                     | .110                                                                     | .710                                                           | 8.5                                                      | <.050                                                                       | <.0500                                                         |
| MAY   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 02-02 | 1459 | 2218           | .110                                                                     | 5.8                                                                            | .810                                                                     | .013                                                                     | .080                                                                     | 1.20                                                           | 7.1                                                      | <.050                                                                       | <.0500                                                         |
| MAY   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 28-28 | 2235 | 2354           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                       | <.050                                                                       | <.0500                                                         |
| JUN   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 09-10 | 1620 | 0435           | .230                                                                     | 4.3                                                                            | 7.90                                                                     | .056                                                                     | .030                                                                     | 1.00                                                           | 5.4                                                      | <.050                                                                       | <.0500                                                         |
| JUN   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 10-10 | 1837 | 1921           | .110                                                                     | 6.1                                                                            | 2.90                                                                     | .025                                                                     | .030                                                                     | 1.40                                                           | 5.1                                                      | <.050                                                                       | <.0500                                                         |
| JUL   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 13-13 | 1554 | 1638           | .320                                                                     | 7.1                                                                            | 1.80                                                                     | .033                                                                     | .050                                                                     | 1.60                                                           | 4.6                                                      | <.050                                                                       | <.0500                                                         |
| AUG   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 09-09 | 0819 | 0852           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                       | <.050                                                                       | <.0500                                                         |
| AUG   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 11-11 | 1941 | 1957           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                       | --                                                                          | --                                                             |
| AUG   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 12-12 | 1556 | 1743           | .076                                                                     | 3.9                                                                            | 1.20                                                                     | .024                                                                     | .080                                                                     | 1.00                                                           | 5.9                                                      | <.050                                                                       | <.0500                                                         |
| AUG   |      |                |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                                |                                                          |                                                                             |                                                                |
| 14-14 | 1605 | 1925           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                             | --                                                       | <.050                                                                       | <.0500                                                         |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE         | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(04041) | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLUO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
|--------------|----------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|
| OCT<br>26-26 | <.050                                                          | .080                                                                         | <.050                                                          | .490                                                            | .930                                                                   | <.0500                                                          | <.0500                                                                     | <.050                                                                    | 4.39                                                                        | 3.51                                                                        | 6.84                                                                |
| NOV<br>07-07 | <.050                                                          | <.050                                                                        | <.050                                                          | <.0500                                                          | .460                                                                   | <.0500                                                          | <.0500                                                                     | .070                                                                     | 6.17                                                                        | 4.39                                                                        | 5.90                                                                |
| NOV<br>30-30 | <.050                                                          | .140                                                                         | <.050                                                          | .180                                                            | <.050                                                                  | <.0500                                                          | .300                                                                       | .070                                                                     | 8.48                                                                        | 7.88                                                                        | 9.15                                                                |
| DEC<br>16-16 | <.050                                                          | <.050                                                                        | <.050                                                          | <.0500                                                          | .420                                                                   | <.0500                                                          | .100                                                                       | <.050                                                                    | .340                                                                        | <.050                                                                       | 1.83                                                                |
| DEC<br>26-27 | --                                                             | --                                                                           | --                                                             | --                                                              | --                                                                     | --                                                              | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| JAN<br>27-28 | --                                                             | --                                                                           | --                                                             | --                                                              | --                                                                     | --                                                              | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>07-07 | --                                                             | --                                                                           | --                                                             | --                                                              | --                                                                     | --                                                              | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>12-13 | <.050                                                          | <.050                                                                        | <.050                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                          | .0500                                                                      | <.050                                                                    | 1.11                                                                        | .890                                                                        | .520                                                                |
| FEB<br>21-21 | --                                                             | --                                                                           | --                                                             | --                                                              | --                                                                     | --                                                              | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| FEB<br>26-27 | <.050                                                          | .050                                                                         | <.050                                                          | .0800                                                           | .170                                                                   | <.0500                                                          | .110                                                                       | .070                                                                     | .320                                                                        | 3.71                                                                        | .620                                                                |
| FEB<br>28-28 | <.050                                                          | <.050                                                                        | <.050                                                          | .0500                                                           | .120                                                                   | <.0500                                                          | .0800                                                                      | .050                                                                     | .740                                                                        | 3.33                                                                        | .460                                                                |
| MAR<br>13-13 | --                                                             | --                                                                           | --                                                             | --                                                              | --                                                                     | --                                                              | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| MAR<br>18-18 | --                                                             | --                                                                           | --                                                             | --                                                              | --                                                                     | --                                                              | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| APR<br>05-05 | <.050                                                          | <.050                                                                        | .090                                                           | .170                                                            | <.050                                                                  | <.0500                                                          | .120                                                                       | .080                                                                     | .670                                                                        | .690                                                                        | 1.63                                                                |
| APR<br>27-28 | <.050                                                          | .130                                                                         | .050                                                           | <.0500                                                          | .070                                                                   | <.0500                                                          | .140                                                                       | <.050                                                                    | 2.55                                                                        | 1.42                                                                        | 1.76                                                                |
| MAY<br>02-02 | <.050                                                          | <.050                                                                        | .170                                                           | <.0500                                                          | <.050                                                                  | <.0500                                                          | .0900                                                                      | .050                                                                     | .700                                                                        | <.050                                                                       | .580                                                                |
| MAY<br>28-28 | <.050                                                          | 2.750                                                                        | .200                                                           | <.0500                                                          | <.050                                                                  | <.0500                                                          | <.0500                                                                     | .060                                                                     | <.050                                                                       | .230                                                                        | <.050                                                               |
| JUN<br>09-10 | <.050                                                          | 1.210                                                                        | .150                                                           | <.0500                                                          | <.050                                                                  | <.0500                                                          | <.0500                                                                     | <.050                                                                    | 7.28                                                                        | <.050                                                                       | 20.0                                                                |
| JUN<br>10-10 | <.050                                                          | .620                                                                         | .120                                                           | <.0500                                                          | <.050                                                                  | <.0500                                                          | <.0500                                                                     | <.050                                                                    | 3.10                                                                        | 3.11                                                                        | 42.0                                                                |
| JUL<br>13-13 | <.050                                                          | <.050                                                                        | .080                                                           | .0600                                                           | <.050                                                                  | <.0500                                                          | <.0500                                                                     | <.050                                                                    | .550                                                                        | 1.34                                                                        | 4.89                                                                |
| AUG<br>09-09 | <.050                                                          | .090                                                                         | <.050                                                          | 28.5                                                            | 24.6                                                                   | <.0500                                                          | .750                                                                       | <.050                                                                    | 5.42                                                                        | 3.48                                                                        | 6.33                                                                |
| AUG<br>11-11 | --                                                             | --                                                                           | --                                                             | --                                                              | --                                                                     | --                                                              | --                                                                         | --                                                                       | --                                                                          | --                                                                          | --                                                                  |
| AUG<br>12-12 | <.050                                                          | .150                                                                         | .080                                                           | 28.9                                                            | 16.9                                                                   | <.0500                                                          | .380                                                                       | <.050                                                                    | 19.19                                                                       | 3.50                                                                        | 10.0                                                                |
| AUG<br>14-14 | <.050                                                          | .080                                                                         | .050                                                           | 11.1                                                            | 14.4                                                                   | <.0500                                                          | .250                                                                       | <.050                                                                    | 5.97                                                                        | <.050                                                                       | 6.43                                                                |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE      | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-----------|-----------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------|
| OCT 26-26 | <.050                                                     | <.050                                                              | <.050                                                       | 4.04                                                            | 2.02                                                           | .190                                                        | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 534                                                  |
| NOV 07-07 | <.050                                                     | <.050                                                              | <.050                                                       | 4.60                                                            | 1.11                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 819                                                  |
| NOV 30-30 | <.050                                                     | <.050                                                              | <.050                                                       | 7.25                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | .0500                                                         | <.05                                                                 | <.050                                                                           | 683                                                  |
| DEC 16-16 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 268                                                  |
| DEC 26-27 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 735                                                  |
| JAN 27-28 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 2200                                                 |
| FEB 07-07 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1670                                                 |
| FEB 12-13 | <.050                                                     | <.050                                                              | <.050                                                       | .790                                                            | .420                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1110                                                 |
| FEB 21-21 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 3640                                                 |
| FEB 26-27 | <.050                                                     | <.050                                                              | <.050                                                       | 2.84                                                            | .640                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1870                                                 |
| FEB 28-28 | <.050                                                     | <.050                                                              | <.050                                                       | 2.79                                                            | .710                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1750                                                 |
| MAR 13-13 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1730                                                 |
| MAR 18-18 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1320                                                 |
| APR 05-05 | .140                                                      | <.050                                                              | <.050                                                       | .680                                                            | .360                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1990                                                 |
| APR 27-28 | .080                                                      | <.050                                                              | <.050                                                       | 1.04                                                            | .370                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 742                                                  |
| MAY 02-02 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | .110                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 3150                                                 |
| MAY 28-28 | <.050                                                     | <.050                                                              | <.050                                                       | .850                                                            | .100                                                           | <.050                                                       | <.050                                                       | .0700                                                         | <.05                                                                 | <.050                                                                           | 4840                                                 |
| JUN 09-10 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 2260                                                 |
| JUN 10-10 | <.050                                                     | <.050                                                              | .050                                                        | 4.99                                                            | .190                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 3430                                                 |
| JUL 13-13 | <.050                                                     | .110                                                               | <.050                                                       | 1.33                                                            | .210                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 3500                                                 |
| AUG 09-09 | .110                                                      | <.050                                                              | <.050                                                       | 3.01                                                            | .200                                                           | <.050                                                       | <.050                                                       | .100                                                          | <.05                                                                 | <.050                                                                           | 1040                                                 |
| AUG 11-11 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 2070                                                 |
| AUG 12-12 | <.050                                                     | <.050                                                              | <.050                                                       | 2.44                                                            | .300                                                           | <.050                                                       | <.050                                                       | .160                                                          | <.05                                                                 | .530                                                                            | 1620                                                 |
| AUG 14-14 | <.050                                                     | <.050                                                              | <.050                                                       | <.050                                                           | .0500                                                          | <.050                                                       | <.050                                                       | .0900                                                         | <.05                                                                 | <.050                                                                           | 914                                                  |

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|------------------------------------------------------|
| OCT   |      |                                                                       |                                                      |
| 26... | 0228 | --                                                                    | 360                                                  |
| 26... | 0255 | --                                                                    | 552                                                  |
| 26... | 0308 | --                                                                    | 844                                                  |
| 26... | 0316 | --                                                                    | 670                                                  |
| 26... | 0324 | --                                                                    | 550                                                  |
| 26... | 0333 | --                                                                    | 502                                                  |
| 26... | 0344 | --                                                                    | 435                                                  |
| 26... | 0358 | --                                                                    | 374                                                  |
| 26... | 0420 | --                                                                    | 276                                                  |
| NOV   |      |                                                                       |                                                      |
| 01... | 1512 | .52                                                                   | 1890                                                 |
| 01... | 1530 | 2.2                                                                   | 1250                                                 |
| 01... | 1541 | 2.3                                                                   | 842                                                  |
| 01... | 1552 | 2.1                                                                   | 628                                                  |
| 01... | 1615 | 1.4                                                                   | 498                                                  |
| 01... | 1630 | 1.2                                                                   | 410                                                  |
| 01... | 1642 | 1.1                                                                   | 324                                                  |
| 01... | 1707 | .88                                                                   | 266                                                  |
| 01... | 1740 | .61                                                                   | 199                                                  |
| 01... | 2011 | 1.0                                                                   | 323                                                  |
| 01... | 2037 | .88                                                                   | 324                                                  |
| 01... | 2112 | .56                                                                   | 348                                                  |



## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| NOV   |      |                                                                       |                                                       |
| 07... | 1047 | .47                                                                   | 2970                                                  |
| 07... | 1103 | 2.7                                                                   | 2060                                                  |
| 07... | 1111 | 3.6                                                                   | 1630                                                  |
| 07... | 1118 | 3.7                                                                   | 1320                                                  |
| 07... | 1124 | 3.7                                                                   | 1080                                                  |
| 07... | 1131 | 3.5                                                                   | 904                                                   |
| 07... | 1139 | 3.2                                                                   | 790                                                   |
| 07... | 1147 | 3.2                                                                   | 694                                                   |
| 07... | 1155 | 3.2                                                                   | 662                                                   |
| 07... | 1202 | 3.3                                                                   | 608                                                   |
| 07... | 1210 | 3.6                                                                   | 576                                                   |
| 07... | 1216 | 4.0                                                                   | 629                                                   |
| 07... | 1222 | 4.3                                                                   | 679                                                   |
| 07... | 1228 | 4.5                                                                   | 625                                                   |
| 07... | 1233 | 4.5                                                                   | 562                                                   |
| 07... | 1239 | 4.4                                                                   | 515                                                   |
| 07... | 1245 | 4.1                                                                   | 457                                                   |
| 07... | 1251 | 3.7                                                                   | 434                                                   |
| 07... | 1258 | 3.3                                                                   | 423                                                   |
| 07... | 1307 | 2.7                                                                   | 435                                                   |
| 07... | 1317 | 2.4                                                                   | 409                                                   |
| 07... | 1327 | 2.3                                                                   | 377                                                   |
| 07... | 1339 | 2.2                                                                   | 346                                                   |
| 07... | 1350 | 2.0                                                                   | 328                                                   |
| 30... | 0225 | .42                                                                   | 259                                                   |
| 30... | 0500 | 2.6                                                                   | 1060                                                  |
| 30... | 0518 | 2.8                                                                   | 705                                                   |
| 30... | 0537 | 2.6                                                                   | 567                                                   |
| 30... | 0556 | 2.7                                                                   | 522                                                   |
| 30... | 0614 | 3.0                                                                   | 537                                                   |
| 30... | 0629 | 3.7                                                                   | 686                                                   |
| 30... | 0642 | 3.9                                                                   | 588                                                   |
| 30... | 0655 | 3.8                                                                   | 468                                                   |
| 30... | 0709 | 3.6                                                                   | 430                                                   |
| 30... | 0722 | 4.4                                                                   | 670                                                   |
| 30... | 0732 | 5.0                                                                   | 723                                                   |
| 30... | 0742 | 5.1                                                                   | 499                                                   |
| 30... | 0752 | 5.0                                                                   | 461                                                   |
| 30... | 0802 | 4.6                                                                   | 404                                                   |
| 30... | 0814 | 4.1                                                                   | 350                                                   |
| 30... | 0827 | 3.7                                                                   | 322                                                   |
| 30... | 0840 | 4.1                                                                   | 535                                                   |
| 30... | 0852 | 4.4                                                                   | 391                                                   |
| 30... | 0903 | 4.2                                                                   | 340                                                   |
| DEC   |      |                                                                       |                                                       |
| 16... | 0658 | .40                                                                   | 600                                                   |
| 16... | 0758 | 1.1                                                                   | 456                                                   |
| 16... | 0837 | 1.7                                                                   | 440                                                   |
| 16... | 0902 | 2.4                                                                   | 500                                                   |
| 16... | 0922 | 2.4                                                                   | 386                                                   |
| 16... | 0945 | 1.8                                                                   | 304                                                   |
| 16... | 1015 | 1.8                                                                   | 307                                                   |
| 16... | 1040 | 2.0                                                                   | 299                                                   |
| 16... | 1108 | 1.5                                                                   | 238                                                   |
| 16... | 1148 | 1.0                                                                   | 206                                                   |
| 16... | 1242 | .94                                                                   | 174                                                   |
| 16... | 1328 | 1.4                                                                   | 245                                                   |
| 16... | 1432 | 1.3                                                                   | 163                                                   |
| 16... | 1507 | 1.8                                                                   | 268                                                   |
| 16... | 1530 | 2.4                                                                   | 315                                                   |
| 16... | 1552 | 2.3                                                                   | 287                                                   |
| 16... | 1615 | 2.1                                                                   | 249                                                   |
| 16... | 1641 | 1.9                                                                   | 235                                                   |
| 16... | 1710 | 1.8                                                                   | 208                                                   |
| 16... | 1736 | 2.2                                                                   | 226                                                   |
| 16... | 1759 | 2.1                                                                   | 195                                                   |
| 16... | 1826 | 1.5                                                                   | 167                                                   |
| 16... | 1902 | 1.3                                                                   | 144                                                   |
| 26... | 1245 | .38                                                                   | 1830                                                  |
| 26... | 1325 | 1.6                                                                   | 1620                                                  |
| 26... | 1346 | 3.0                                                                   | 1440                                                  |
| 26... | 1402 | 3.0                                                                   | 1200                                                  |
| 26... | 1419 | 3.1                                                                   | 1080                                                  |
| 26... | 1436 | 2.4                                                                   | 870                                                   |
| 26... | 1502 | 1.5                                                                   | 717                                                   |
| 26... | 1544 | .94                                                                   | 541                                                   |
| 26... | 1649 | .97                                                                   | 711                                                   |
| 26... | 1729 | 1.3                                                                   | 465                                                   |
| 26... | 1811 | 1.2                                                                   | 450                                                   |
| 26... | 1843 | 2.0                                                                   | 749                                                   |
| 26... | 1907 | 2.0                                                                   | 601                                                   |
| 26... | 1934 | 1.9                                                                   | 526                                                   |
| 26... | 2003 | 1.4                                                                   | 459                                                   |
| 26... | 2040 | 1.6                                                                   | 634                                                   |
| 26... | 2106 | 2.0                                                                   | 518                                                   |
| 26... | 2136 | 1.3                                                                   | 362                                                   |
| 26... | 2222 | 1.0                                                                   | 295                                                   |
| 26... | 2316 | .79                                                                   | 252                                                   |
| 27... | 0034 | .52                                                                   | 217                                                   |
| 27... | 0230 | .36                                                                   | 194                                                   |
| 27... | 0233 | .36                                                                   | 205                                                   |
| 27... | 0236 | .36                                                                   | 187                                                   |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|------------------------------------------------------|
| JAN   |      |                                                                       |                                                      |
| 27... | 2017 | 1.0                                                                   | 8160                                                 |
| 27... | 2040 | 8.6                                                                   | 5920                                                 |
| 27... | 2050 | 10                                                                    | 4150                                                 |
| 27... | 2100 | 11                                                                    | 3400                                                 |
| 27... | 2109 | 11                                                                    | 3330                                                 |
| 27... | 2119 | 10                                                                    | 3100                                                 |
| 27... | 2129 | 9.6                                                                   | 2680                                                 |
| 27... | 2139 | 8.9                                                                   | 2560                                                 |
| 27... | 2151 | 8.1                                                                   | 2180                                                 |
| 27... | 2204 | 7.2                                                                   | 1960                                                 |
| 27... | 2219 | 6.5                                                                   | 1790                                                 |
| 27... | 2234 | 6.2                                                                   | 1810                                                 |
| 27... | 2251 | 5.8                                                                   | 1790                                                 |
| 27... | 2310 | 4.9                                                                   | 1780                                                 |
| 27... | 2333 | 3.7                                                                   | 1890                                                 |
| 28... | 0005 | 2.7                                                                   | 1980                                                 |
| 28... | 0042 | 2.7                                                                   | 1690                                                 |
| 28... | 0222 | 1.6                                                                   | 4040                                                 |
| 28... | 0347 | .91                                                                   | 769                                                  |
| FEB   |      |                                                                       |                                                      |
| 07... | 1231 | .85                                                                   | 2210                                                 |
| 07... | 1337 | 1.8                                                                   | 1820                                                 |
| 07... | 1423 | 2.3                                                                   | 1650                                                 |
| 07... | 1459 | 3.9                                                                   | 2480                                                 |
| 07... | 1523 | 4.5                                                                   | 2100                                                 |
| 07... | 1544 | 4.8                                                                   | 1730                                                 |
| 07... | 1608 | 3.2                                                                   | 1510                                                 |
| 07... | 1656 | 1.6                                                                   | 4260                                                 |
| 07... | 1810 | 1.1                                                                   | 921                                                  |
| 12... | 2052 | .82                                                                   | 535                                                  |
| 12... | 2148 | 2.0                                                                   | 1370                                                 |
| 12... | 2227 | 3.0                                                                   | 1580                                                 |
| 12... | 2300 | 3.2                                                                   | 1530                                                 |
| 12... | 2332 | 3.2                                                                   | 1420                                                 |
| 13... | 0003 | 3.0                                                                   | 1250                                                 |
| 13... | 0039 | 2.9                                                                   | 1300                                                 |
| 13... | 0110 | 3.4                                                                   | 1360                                                 |
| 13... | 0144 | 2.4                                                                   | 1360                                                 |
| 13... | 0239 | 1.5                                                                   | 1210                                                 |
| 13... | 0350 | 2.4                                                                   | 1620                                                 |
| 13... | 0428 | 2.1                                                                   | 827                                                  |
| 13... | 0536 | 1.3                                                                   | 627                                                  |
| 13... | 0632 | .82                                                                   | 507                                                  |
| 13... | 0746 | .85                                                                   | 594                                                  |
| 13... | 0850 | 1.3                                                                   | 481                                                  |
| 21... | 0241 | 1.3                                                                   | 10600                                                |
| 21... | 0300 | 5.6                                                                   | 3710                                                 |
| 21... | 0320 | 4.1                                                                   | 2540                                                 |
| 21... | 0354 | 2.3                                                                   | 2270                                                 |
| 26... | 2128 | 1.0                                                                   | 5770                                                 |
| 26... | 2213 | 2.9                                                                   | 2010                                                 |
| 26... | 2249 | 2.4                                                                   | 1910                                                 |
| 26... | 2340 | 1.9                                                                   | 2050                                                 |
| 27... | 0050 | .88                                                                   | 930                                                  |
| 27... | 0058 | .82                                                                   | 842                                                  |
| 28... | 0055 | .88                                                                   | 2320                                                 |
| 28... | 0145 | 3.5                                                                   | 2710                                                 |
| 28... | 0206 | 6.4                                                                   | 2510                                                 |
| 28... | 0221 | 6.5                                                                   | 1660                                                 |
| 28... | 0237 | 6.5                                                                   | 2310                                                 |
| 28... | 0252 | 6.6                                                                   | 1870                                                 |
| 28... | 0307 | 6.9                                                                   | 1680                                                 |
| 28... | 0322 | 6.1                                                                   | 1390                                                 |
| 28... | 0340 | 4.6                                                                   | 1300                                                 |
| 28... | 0413 | 2.1                                                                   | 1210                                                 |
| 28... | 0506 | 1.6                                                                   | 3740                                                 |
| 28... | 0631 | .85                                                                   | 703                                                  |
| MAR   |      |                                                                       |                                                      |
| 01... | 0129 | .88                                                                   | 13300                                                |
| 02... | 0332 | .82                                                                   | 9250                                                 |
| 02... | 0417 | 2.1                                                                   | 1120                                                 |
| 02... | 0455 | 2.9                                                                   | 1080                                                 |
| 02... | 0534 | 2.5                                                                   | 951                                                  |
| 02... | 0633 | 1.3                                                                   | 825                                                  |
| 02... | 0731 | 1.5                                                                   | 683                                                  |
| 02... | 0858 | .94                                                                   | 483                                                  |
| 02... | 0920 | .82                                                                   | 505                                                  |
| 02... | 1004 | 4.0                                                                   | 1540                                                 |
| 13... | 1600 | .97                                                                   | 3970                                                 |
| 13... | 1608 | 2.1                                                                   | 1730                                                 |
| 13... | 1655 | .94                                                                   | 820                                                  |
| 18... | 1746 | .88                                                                   | 6900                                                 |
| 18... | 1828 | 2.7                                                                   | 1790                                                 |
| 18... | 1902 | 2.8                                                                   | 1180                                                 |
| 18... | 1938 | 3.0                                                                   | 1320                                                 |
| 18... | 2010 | 3.1                                                                   | 1150                                                 |
| 18... | 2040 | 3.5                                                                   | 934                                                  |
| 18... | 2118 | 1.7                                                                   | 900                                                  |
| 18... | 2315 | .88                                                                   | 1040                                                 |
| 18... | 2344 | .82                                                                   | 504                                                  |

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

|       |      | DIS-CHARGE, INST. CUBIC FEET PER SECOND | NITRO-GEN, AMMONIA DIS- SOLVED (MG/L AS N) | NITRO-GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) | PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) | PHOS- PHORUS, TOTAL (MG/L AS P) | FLUO- METURON, WAT REC IMMUNO. UNADJ (UG/L) | SEDI- MENT, SUS- PENDED (MG/L) |
|-------|------|-----------------------------------------|--------------------------------------------|--------------------------------------------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------|---------------------------------------------|--------------------------------|
|       |      | (00061)                                 | (00608)                                    | (00625)                                          | (00631)                                     | (00613)                                     | (00671)                                      | (00665)                         | (99773)                                     | (80154)                        |
| APR   |      |                                         |                                            |                                                  |                                             |                                             |                                              |                                 |                                             |                                |
| 05... | 0803 | 1.0                                     | .059                                       | 11                                               | .820                                        | .015                                        | .070                                         | 1.90                            | 1.98                                        | 7490                           |
| 05... | 0853 | 2.1                                     | .034                                       | 5.3                                              | 1.90                                        | .018                                        | .120                                         | 1.10                            | 2.10                                        | 1440                           |
| 05... | 0938 | 2.3                                     | .040                                       | 3.8                                              | 2.70                                        | .019                                        | .120                                         | .640                            | 2.64                                        | 918                            |
| 05... | 1032 | 1.3                                     | .050                                       | 6.6                                              | 3.40                                        | .030                                        | .090                                         | 1.20                            | 3.41                                        | 935                            |
| 27... | 0648 | .88                                     | .110                                       | 3.1                                              | 6.20                                        | .042                                        | .130                                         | .640                            | 3.64                                        | 875                            |
| 27... | 0753 | 3.5                                     | .100                                       | 3.1                                              | 4.50                                        | .034                                        | .110                                         | .800                            | 1.61                                        | 1050                           |
| 27... | 0817 | 4.7                                     | .100                                       | 2.8                                              | 3.80                                        | .030                                        | .130                                         | .710                            | 1.58                                        | 902                            |
| 27... | 0837 | 5.1                                     | .086                                       | 2.7                                              | 3.60                                        | .027                                        | .120                                         | .400                            | 1.41                                        | 918                            |
| 27... | 0858 | 4.1                                     | .090                                       | 2.5                                              | 3.90                                        | .028                                        | .120                                         | .460                            | 2.58                                        | 753                            |
| 27... | 0928 | 2.9                                     | .080                                       | 2.5                                              | 4.40                                        | .028                                        | .100                                         | .540                            | 1.90                                        | 706                            |
| 27... | 1028 | 1.8                                     | .088                                       | 2.1                                              | 4.60                                        | .028                                        | .120                                         | .620                            | 3.38                                        | 571                            |
| 27... | 1109 | 1.2                                     | .070                                       | 2.1                                              | 4.50                                        | .030                                        | .120                                         | .460                            | 2.47                                        | 550                            |
| 27... | 1217 | 3.2                                     | .058                                       | 2.5                                              | 3.30                                        | .026                                        | .090                                         | .390                            | 1.72                                        | 917                            |
| 27... | 1247 | 2.8                                     | .066                                       | 1.8                                              | 3.50                                        | .027                                        | .110                                         | .400                            | 3.09                                        | 497                            |
| 27... | 1338 | 1.4                                     | .061                                       | 1.7                                              | 3.80                                        | .033                                        | .120                                         | .480                            | 2.83                                        | 426                            |
| 28... | 0109 | --                                      | .092                                       | 3.9                                              | 3.60                                        | .046                                        | .100                                         | .630                            | 3.47                                        | 1490                           |
| 28... | 0131 | --                                      | .076                                       | 1.5                                              | 3.80                                        | .046                                        | .120                                         | .390                            | 3.29                                        | 803                            |
| 28... | 0157 | --                                      | .077                                       | 2.3                                              | 3.90                                        | .047                                        | .130                                         | .420                            | 3.51                                        | 544                            |
| 28... | 0202 | --                                      | .082                                       | 2.2                                              | 4.00                                        | .051                                        | .120                                         | .600                            | 2.97                                        | 510                            |
| 28... | 0205 | --                                      | .070                                       | 2.2                                              | 4.00                                        | .045                                        | .130                                         | .610                            | 3.89                                        | 487                            |
| 28... | 0207 | --                                      | .077                                       | 2.2                                              | 3.90                                        | .046                                        | .130                                         | .580                            | 3.73                                        | 473                            |
| 28... | 0210 | --                                      | .071                                       | 2.1                                              | 4.00                                        | .047                                        | .120                                         | .560                            | 2.63                                        | 451                            |
| 28... | 0214 | --                                      | .062                                       | 1.4                                              | 4.20                                        | .048                                        | .120                                         | .350                            | 3.71                                        | 428                            |
| 28... | 0219 | --                                      | .069                                       | 2.0                                              | 4.20                                        | .049                                        | .120                                         | .510                            | 4.16                                        | 398                            |
| 28... | 0225 | --                                      | .072                                       | 1.9                                              | 4.20                                        | .051                                        | .130                                         | .400                            | 4.23                                        | 380                            |
| 28... | 0231 | --                                      | .074                                       | 1.8                                              | 4.30                                        | .052                                        | .130                                         | .460                            | 3.51                                        | 360                            |
| 28... | 0235 | --                                      | .070                                       | 1.9                                              | 4.50                                        | .050                                        | .120                                         | .420                            | 4.10                                        | 334                            |
| MAY   |      |                                         |                                            |                                                  |                                             |                                             |                                              |                                 |                                             |                                |
| 02... | 1458 | .88                                     | .150                                       | 12                                               | .860                                        | .017                                        | .130                                         | 1.70                            | .98                                         | 6130                           |
| 02... | 1522 | 6.6                                     | .110                                       | 12                                               | .710                                        | .016                                        | .100                                         | 2.30                            | .76                                         | 4970                           |
| 02... | 1536 | 7.1                                     | .120                                       | 8.3                                              | .820                                        | .016                                        | .120                                         | 1.40                            | .58                                         | 3470                           |
| 02... | 1551 | 6.6                                     | .170                                       | 7.3                                              | 1.10                                        | .014                                        | .110                                         | 1.50                            | .93                                         | 2780                           |
| 02... | 1607 | 6.1                                     | .180                                       | 6.0                                              | 1.10                                        | .018                                        | .110                                         | 1.30                            | 1.17                                        | 2280                           |
| 02... | 1624 | 5.2                                     | .150                                       | 5.0                                              | 1.20                                        | .019                                        | .110                                         | 1.10                            | 1.68                                        | 2140                           |
| 02... | 1648 | 2.8                                     | .160                                       | 5.3                                              | 1.40                                        | .021                                        | .120                                         | 1.10                            | .97                                         | 2140                           |
| 02... | 1744 | 1.2                                     | .110                                       | 14                                               | 1.50                                        | .030                                        | .090                                         | 1.50                            | 1.61                                        | 12300                          |
| 02... | 1821 | 5.5                                     | .120                                       | 6.4                                              | 1.10                                        | .022                                        | .100                                         | 1.30                            | .71                                         | 3930                           |
| 02... | 1836 | 7.0                                     | .120                                       | 5.3                                              | .930                                        | .020                                        | .110                                         | .920                            | .93                                         | 2570                           |
| 02... | 1849 | 8.5                                     | .100                                       | 5.4                                              | .770                                        | .019                                        | .100                                         | 1.30                            | .51                                         | 2280                           |
| 02... | 1900 | 11                                      | .091                                       | 6.2                                              | .610                                        | .016                                        | .090                                         | 1.20                            | .26                                         | 3010                           |
| 02... | 1908 | 12                                      | .088                                       | 5.6                                              | .590                                        | .020                                        | .120                                         | 1.10                            | .26                                         | 2980                           |
| 02... | 1917 | 12                                      | .089                                       | 5.7                                              | .550                                        | .012                                        | .080                                         | 1.50                            | .90                                         | 2530                           |
| 02... | 1925 | 12                                      | .090                                       | 4.7                                              | .560                                        | .017                                        | .110                                         | 1.30                            | .60                                         | 2220                           |
| 02... | 1934 | 11                                      | .090                                       | 3.6                                              | .560                                        | .016                                        | .130                                         | 1.20                            | .32                                         | 2030                           |
| 02... | 1943 | 11                                      | .110                                       | 3.7                                              | .580                                        | .020                                        | .120                                         | 1.20                            | .72                                         | 1780                           |
| 02... | 1953 | 10                                      | .100                                       | 3.4                                              | .610                                        | .020                                        | .110                                         | 1.10                            | .74                                         | 1540                           |
| 02... | 2003 | 9.5                                     | .098                                       | 3.3                                              | .620                                        | .016                                        | .110                                         | .940                            | .82                                         | 1550                           |
| 02... | 2014 | 8.6                                     | .110                                       | 3.1                                              | .660                                        | .018                                        | .100                                         | .670                            | .80                                         | 1340                           |
| 02... | 2026 | 7.7                                     | .120                                       | 3.1                                              | .690                                        | .018                                        | .090                                         | .760                            | .90                                         | 1330                           |
| 02... | 2040 | 6.3                                     | .120                                       | 3.1                                              | .820                                        | .018                                        | .120                                         | 1.10                            | .67                                         | 1270                           |
| 02... | 2058 | 4.5                                     | .110                                       | 3.2                                              | .820                                        | .019                                        | .120                                         | 1.00                            | .98                                         | 1370                           |
| 02... | 2135 | 1.9                                     | .110                                       | 2.5                                              | .900                                        | .020                                        | .120                                         | .920                            | .91                                         | 1090                           |
| 27... | 0724 | --                                      | --                                         | --                                               | --                                          | --                                          | --                                           | --                              | --                                          | 5310                           |
| 28... | 2237 | 1.7                                     | --                                         | --                                               | --                                          | --                                          | --                                           | --                              | 189                                         | 11600                          |
| 28... | 2302 | 3.7                                     | --                                         | --                                               | --                                          | --                                          | --                                           | --                              | 140                                         | 3450                           |
| 28... | 2355 | .94                                     | --                                         | --                                               | --                                          | --                                          | --                                           | --                              | 152                                         | 1540                           |
| JUN   |      |                                         |                                            |                                                  |                                             |                                             |                                              |                                 |                                             |                                |
| 09... | 1619 | 1.1                                     | --                                         | --                                               | --                                          | --                                          | --                                           | --                              | --                                          | 15100                          |
| 09... | 1644 | 7.2                                     | .180                                       | 8.0                                              | 3.90                                        | .032                                        | .050                                         | .820                            | 54.0                                        | 6280                           |
| 09... | 1657 | 7.8                                     | .160                                       | 8.4                                              | 5.40                                        | .030                                        | .050                                         | 1.20                            | 85.0                                        | 4150                           |
| 09... | 1710 | 6.5                                     | .190                                       | 6.6                                              | 7.10                                        | .034                                        | .060                                         | 1.10                            | 112                                         | 2690                           |
| 09... | 1729 | 4.3                                     | .280                                       | 7.5                                              | 9.80                                        | .044                                        | .050                                         | 1.50                            | 114                                         | 2720                           |
| 09... | 1818 | 1.0                                     | .340                                       | 4.4                                              | 14.0                                        | .085                                        | .040                                         | 1.00                            | 35.0                                        | 1490                           |
| 09... | 1955 | .85                                     | .450                                       | 6.3                                              | 19.0                                        | .190                                        | .040                                         | 1.10                            | 147                                         | 1380                           |
| 09... | 2031 | 6.2                                     | .230                                       | 10                                               | 8.40                                        | .063                                        | .040                                         | 2.50                            | 44.0                                        | 4970                           |
| 09... | 2046 | 7.0                                     | .230                                       | 7.1                                              | 7.10                                        | .062                                        | .030                                         | .820                            | 15.0                                        | 3000                           |
| 09... | 2100 | 6.5                                     | .250                                       | 5.1                                              | 7.20                                        | .064                                        | .040                                         | .990                            | 82.0                                        | 1990                           |
| 09... | 2117 | 5.1                                     | .280                                       | 3.9                                              | 8.70                                        | .083                                        | .060                                         | .900                            | 82.0                                        | 1360                           |
| 09... | 2143 | 2.6                                     | .300                                       | 3.7                                              | 11.0                                        | .084                                        | .040                                         | .900                            | 107                                         | 1550                           |
| 09... | 2240 | 1.4                                     | .320                                       | 2.8                                              | 12.0                                        | .097                                        | .050                                         | .700                            | 26.0                                        | 906                            |
| 09... | 2323 | 4.8                                     | .240                                       | 3.8                                              | 7.80                                        | .054                                        | .050                                         | .770                            | 83.0                                        | 1700                           |
| 09... | 2342 | 5.8                                     | .190                                       | 4.8                                              | 6.40                                        | .050                                        | .050                                         | .830                            | 73.0                                        | 1370                           |
| 09... | 2359 | 5.6                                     | .210                                       | 2.8                                              | 6.50                                        | .057                                        | .050                                         | .740                            | 78.0                                        | 1000                           |
| 10... | 0018 | 4.9                                     | .210                                       | 3.2                                              | 6.50                                        | .054                                        | .060                                         | .760                            | 68.0                                        | 991                            |
| 10... | 0039 | 4.7                                     | .210                                       | 3.1                                              | 6.20                                        | .048                                        | .060                                         | .720                            | 88.0                                        | 939                            |
| 10... | 0102 | 3.7                                     | --                                         | --                                               | --                                          | --                                          | --                                           | --                              | --                                          | 853                            |
| 10... | 0132 | 4.0                                     | .160                                       | 2.9                                              | 6.10                                        | .045                                        | .050                                         | .610                            | 75.0                                        | 1090                           |
| 10... | 0156 | 3.9                                     | .210                                       | 2.2                                              | 5.90                                        | .050                                        | .060                                         | .550                            | 69.0                                        | 752                            |
| 10... | 0223 | 3.7                                     | .200                                       | 2.0                                              | 6.40                                        | .048                                        | .060                                         | .560                            | 85.0                                        | 686                            |
| 10... | 0257 | 2.2                                     | .220                                       | 2.0                                              | 7.40                                        | .054                                        | .070                                         | .470                            | 105                                         | 719                            |
| 10... | 0359 | 1.2                                     | .230                                       | 1.9                                              | 7.80                                        | .058                                        | .070                                         | .450                            | 91.0                                        | 577                            |
| 10... | 1838 | 2.0                                     | .180                                       | 11                                               | 4.10                                        | .026                                        | .060                                         | 1.70                            | 61.0                                        | 6420                           |
| 10... | 1903 | 4.3                                     | .099                                       | 5.7                                              | 2.40                                        | .020                                        | .040                                         | 1.10                            | 71.0                                        | 2360                           |
| 10... | 1952 | .74                                     | .150                                       | 3.0                                              | 5.00                                        | .034                                        | .060                                         | .730                            | 88.0                                        | --                             |
| 12... | 1439 | 2.2                                     | --                                         | --                                               | --                                          | --                                          | --                                           | --                              | --                                          | 6960                           |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997--Continued

| DATE  | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND<br>(00061) | NITRO-GEN, AMMONIA DIS-SOLVED<br>(MG/L AS N)<br>(00608) | NITRO-GEN, AMMONIA + ORGANIC TOTAL<br>(MG/L AS N)<br>(00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED<br>(MG/L AS N)<br>(00631) | NITRO-GEN, NITRITE DIS-SOLVED<br>(MG/L AS N)<br>(00613) | PHOS-PHORUS, ORTHO, DIS-SOLVED<br>(MG/L AS P)<br>(00671) | PHOS-PHORUS, DIS-SOLVED TOTAL<br>(MG/L AS P)<br>(00665) | FLUO-METURON, WAT FLT REC<br>(UG/L)<br>(99773) | SEDI-MENT, SUS-PENDED<br>(MG/L)<br>(80154) |
|-------|------|----------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|------------------------------------------------|--------------------------------------------|
| JUL   |      |                                                    |                                                         |                                                              |                                                         |                                                         |                                                          |                                                         |                                                |                                            |
| 13... | 1552 | 1.3                                                | .830                                                    | 13                                                           | 2.70                                                    | .042                                                    | .040                                                     | 1.70                                                    | 19.3                                           | 7690                                       |
| 13... | 1607 | 6.1                                                | .220                                                    | 7.3                                                          | 1.60                                                    | .029                                                    | .060                                                     | .780                                                    | 12.8                                           | 3550                                       |
| 13... | 1625 | 4.4                                                | .230                                                    | 4.1                                                          | 1.90                                                    | .026                                                    | .070                                                     | .530                                                    | 16.1                                           | 1910                                       |
| AUG   |      |                                                    |                                                         |                                                              |                                                         |                                                         |                                                          |                                                         |                                                |                                            |
| 09... | 0708 | 1.1                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | 9.20                                           | 3180                                       |
| 09... | 0759 | 2.0                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | 8.01                                           | 654                                        |
| 09... | 0848 | .82                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | 6.78                                           | 451                                        |
| 11... | 1939 | .85                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | --                                             | 2610                                       |
| 12... | 1558 | 1.9                                                | .096                                                    | 9.3                                                          | 1.20                                                    | .018                                                    | .070                                                     | .800                                                    | 9.01                                           | --                                         |
| 12... | 1634 | 2.8                                                | .044                                                    | 3.0                                                          | 1.30                                                    | .023                                                    | .100                                                     | .700                                                    | 10.0                                           | --                                         |
| 14... | 1608 | 2.8                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | --                                             | 4680                                       |
| 14... | 1637 | 6.6                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | --                                             | 856                                        |
| 14... | 1701 | 6.6                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | --                                             | 811                                        |
| 14... | 1723 | 6.6                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | --                                             | 612                                        |
| 14... | 1747 | 4.1                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | --                                             | 461                                        |
| 14... | 1907 | .91                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | --                                             | 406                                        |
| 14... | 1929 | .79                                                | --                                                      | --                                                           | --                                                      | --                                                      | --                                                       | --                                                      | --                                             | 380                                        |

## DISCRETE SAMPLE SUPPLEMENTAL DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE                                                         | TIME  | 3,4-DI-CHLORO-ANILINE WATER FLTRD REC<br>(UG/L)<br>(50309) | ACETO-CHLOR, WATER FLTRD REC<br>(UG/L)<br>(49260) | ALA-CHLOR, WATER, FLTRD REC<br>(UG/L)<br>(46342) | ANILINE 3-(TRI-FLURO-METHYL) WATER, FLTRD REC<br>(UG/L)<br>(50307) | ATRA-ZINE, WATER, DISS, REC<br>(UG/L)<br>(39632) | CYANA-ZINE, WATER, DISS, REC<br>(UG/L)<br>(04041) | CYANA-ZINE, AMIDE, WATER, FLTRD REC<br>(UG/L)<br>(61709) | DEETHYL, ATRA-ZINE, WATER, DISS, REC<br>(UG/L)<br>(04040) | DEISO-PROPYL, ATRAZIN, WATER, FLTRD REC<br>(UG/L)<br>(04038) | DEISO-PROPYL, METRYN, WATER, FLTRD REC<br>(UG/L)<br>(50378) | DEMETH-YLFLURO-METURON, WATER, FLTRD REC<br>(UG/L)<br>(50379) |
|--------------------------------------------------------------|-------|------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|
| MAY                                                          |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| 02...                                                        | 2040  | <.050                                                      | <.0500                                            | <.050                                            | <.050                                                              | .120                                             | <.0500                                            | <.050                                                    | <.0500                                                    | .0700                                                        | <.050                                                       | .790                                                          |
| 28...                                                        | 2237  | <.050                                                      | <.0500                                            | <.050                                            | 1.620                                                              | .610                                             | <.0500                                            | <.050                                                    | <.0500                                                    | <.0500                                                       | .070                                                        | 13.00                                                         |
| JUN                                                          |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| 09...                                                        | 1729  | <.050                                                      | <.0500                                            | <.050                                            | .680                                                               | .370                                             | <.0500                                            | <.050                                                    | <.0500                                                    | <.0500                                                       | <.050                                                       | 7.76                                                          |
| 09...                                                        | 1955  | <.050                                                      | <.0500                                            | <.050                                            | 1.260                                                              | .350                                             | <.0500                                            | <.050                                                    | <.0500                                                    | <.0500                                                       | <.050                                                       | 6.27                                                          |
| 09...                                                        | 2031  | <.050                                                      | <.0500                                            | <.050                                            | .140                                                               | .220                                             | <.0500                                            | <.050                                                    | <.0500                                                    | <.0500                                                       | <.050                                                       | 7.74                                                          |
| 09...                                                        | 2046  | <.050                                                      | <.0500                                            | <.050                                            | .150                                                               | <.050                                            | <.0500                                            | <.050                                                    | <.0500                                                    | <.0500                                                       | <.050                                                       | <.050                                                         |
| 09...                                                        | 2143  | <.050                                                      | <.0500                                            | <.050                                            | .160                                                               | .280                                             | <.0500                                            | .050                                                     | <.0500                                                    | <.0500                                                       | <.050                                                       | 8.04                                                          |
| 10...                                                        | 0039  | <.050                                                      | <.0500                                            | <.050                                            | .900                                                               | .160                                             | <.0500                                            | <.050                                                    | <.0500                                                    | <.0500                                                       | <.050                                                       | 9.09                                                          |
| 10...                                                        | 0257  | <.050                                                      | <.0500                                            | <.050                                            | <.050                                                              | .180                                             | <.0500                                            | <.050                                                    | <.0500                                                    | <.0500                                                       | <.050                                                       | 9.73                                                          |
| 10...                                                        | 1838  | <.050                                                      | <.0500                                            | <.050                                            | .910                                                               | .180                                             | <.0500                                            | <.050                                                    | <.0500                                                    | <.0500                                                       | <.050                                                       | 7.93                                                          |
| JUL                                                          |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| 13...                                                        | 1552  | <.050                                                      | <.0500                                            | <.050                                            | <.050                                                              | .150                                             | <.0500                                            | <.050                                                    | <.0500                                                    | <.0500                                                       | <.050                                                       | 2.97                                                          |
| 13...                                                        | 1625  | <.050                                                      | <.0500                                            | <.050                                            | .070                                                               | <.050                                            | .0500                                             | <.050                                                    | <.0500                                                    | <.0500                                                       | <.050                                                       | 4.51                                                          |
| DEMETH-YLNORF-LURAZON WATER FLTRD REC<br>(UG/L)<br>(50380)   |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| FLUO-MET-URON WATER FLTRD REC<br>(UG/L)<br>(61710)           |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| METO-LACHLOR, WATER DISSOLV<br>(UG/L)<br>(39415)             |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| METRI-BOZIN SENCOR WATER DISSOLV<br>(UG/L)<br>(82630)        |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| MOLI-NATE WATER FLTRD REC<br>(UG/L)<br>(50375)               |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| NORFLU-RAZONE WATER FLTRD REC<br>(UG/L)<br>(50332)           |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| PRO-METRYN, WATER, DISS, REC<br>(UG/L)<br>(04036)            |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| PROP-ANIL, WATER, FLTRD REC<br>(UG/L)<br>(50377)             |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| PROP-AZINE, WATER, DISS, REC<br>(UG/L)<br>(38535)            |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| SI-MAZINE, WATER, DISS, REC<br>(UG/L)<br>(04035)             |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| TRI-FLUR-ALIN, WATER, DISS, REC<br>(UG/L)<br>(38574)         |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| UREA, 3-TRI-FLURO-METHYL-PHENYL UNFLTRD<br>(UG/L)<br>(50473) |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| MAY                                                          |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| 02...                                                        | <.050 | .580                                                       | <.050                                             | <.050                                            | <.050                                                              | <.050                                            | <.0500                                            | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| 28...                                                        | 1.44  | 45.0                                                       | .100                                              | <.050                                            | .090                                                               | 8.07                                             | .340                                              | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| JUN                                                          |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| 09...                                                        | <.050 | 127                                                        | <.050                                             | <.050                                            | <.050                                                              | .140                                             | <.0500                                            | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| 09...                                                        | .410  | 116                                                        | <.050                                             | <.050                                            | .060                                                               | .790                                             | <.0500                                            | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| 09...                                                        | .630  | 53.0                                                       | <.050                                             | <.050                                            | .070                                                               | 1.36                                             | <.0500                                            | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| 09...                                                        | <.050 | 8.00                                                       | <.050                                             | <.050                                            | <.050                                                              | <.050                                            | <.0500                                            | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| 09...                                                        | .620  | 89.0                                                       | <.050                                             | <.050                                            | .050                                                               | 1.15                                             | <.0500                                            | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| 10...                                                        | 1.17  | 88.0                                                       | <.050                                             | <.050                                            | <.050                                                              | 1.88                                             | <.0500                                            | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| 10...                                                        | 1.74  | 72.0                                                       | <.050                                             | <.050                                            | <.050                                                              | 2.68                                             | <.0500                                            | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| 10...                                                        | .910  | 51.0                                                       | <.050                                             | <.050                                            | <.050                                                              | <.050                                            | .0800                                             | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| JUL                                                          |       |                                                            |                                                   |                                                  |                                                                    |                                                  |                                                   |                                                          |                                                           |                                                              |                                                             |                                                               |
| 13...                                                        | .410  | 10.7                                                       | <.050                                             | <.050                                            | <.050                                                              | .730                                             | .0700                                             | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |
| 13...                                                        | .100  | 8.92                                                       | <.050                                             | <.050                                            | <.050                                                              | .210                                             | <.0500                                            | <.050                                                    | <.050                                                     | <.0500                                                       | <.05                                                        | <.050                                                         |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

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## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

| DATE         | TIME | ENDING<br>TIME | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260) |
|--------------|------|----------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------|
| OCT<br>23-24 | 2322 | 0227           | .012                                                                     | 1.8                                                                            | 3.10                                                                     | .015                                                                     | .310                                                                     | .680                                                  | 9.4                                                      | <.050                                                                       | <.0500                                                         |
| NOV<br>28-29 | 2122 | 0537           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| DEC<br>03-03 | 0613 | 1028           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| DEC<br>21-21 | 0615 | 1153           | .031                                                                     | .51                                                                            | .750                                                                     | <.010                                                                    | .260                                                                     | .260                                                  | --                                                       | <.050                                                                       | <.0500                                                         |
| DEC<br>23-23 | 1446 | 2352           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JAN<br>06-06 | 0943 | 1621           | .041                                                                     | 2.5                                                                            | .440                                                                     | <.010                                                                    | .180                                                                     | .820                                                  | 8.3                                                      | <.050                                                                       | <.0500                                                         |
| JAN<br>07-07 | 1742 | 2107           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JAN<br>12-12 | 0127 | 0258           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JAN<br>15-15 | 1501 | 2211           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JAN<br>21-21 | 1605 | 1936           | .028                                                                     | 1.5                                                                            | .290                                                                     | <.010                                                                    | .110                                                                     | .390                                                  | 7.1                                                      | <.050                                                                       | <.0500                                                         |
| JAN<br>26-26 | 1236 | 1336           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| FEB<br>01-01 | 1513 | 1533           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| FEB<br>10-10 | 1842 | 2238           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| FEB<br>15-16 | 1930 | 0209           | <.010                                                                    | 2.4                                                                            | .340                                                                     | <.010                                                                    | .110                                                                     | .760                                                  | 6.4                                                      | <.050                                                                       | <.0500                                                         |
| FEB<br>22-22 | 1116 | 1415           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| FEB<br>26-26 | 1140 | 1430           | .016                                                                     | 4.0                                                                            | .200                                                                     | <.010                                                                    | .070                                                                     | .820                                                  | 11                                                       | <.050                                                                       | <.0500                                                         |
| MAR<br>07-08 | 0851 | 0028           | .032                                                                     | 3.3                                                                            | .440                                                                     | <.010                                                                    | .060                                                                     | .820                                                  | 8.3                                                      | <.050                                                                       | <.0500                                                         |
| MAR<br>16-17 | 2020 | 0104           | .030                                                                     | 3.7                                                                            | .790                                                                     | .011                                                                     | .090                                                                     | 1.00                                                  | 5.7                                                      | <.050                                                                       | <.0500                                                         |
| APR<br>28-28 | 0214 | 0501           | .150                                                                     | 3.0                                                                            | 4.60                                                                     | .022                                                                     | .040                                                                     | .600                                                  | 9.4                                                      | <.050                                                                       | --                                                             |
| MAY<br>28-29 | 2004 | 0559           | 1.90                                                                     | 12                                                                             | 4.60                                                                     | .051                                                                     | .060                                                                     | .990                                                  | 8.2                                                      | <.050                                                                       | <.0500                                                         |
| JUN<br>05-05 | 1234 | 1257           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                       | --                                                                          | --                                                             |
| JUL<br>13-13 | 0347 | 0748           | .540                                                                     | 4.2                                                                            | 4.50                                                                     | <.010                                                                    | .190                                                                     | 1.00                                                  | 10                                                       | <.050                                                                       | --                                                             |
| JUL<br>13-13 | 1135 | 1217           | .500                                                                     | .60                                                                            | 5.70                                                                     | <.010                                                                    | .200                                                                     | .790                                                  | 10                                                       | --                                                                          | --                                                             |

## 0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS. MS--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

[illegible]

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

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## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

| DATE  | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------|
| OCT   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 23-24 | .070                                                      | <.050                                                    | <.050                                                       | .860                                                            | .320                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 369                                                  |
| NOV   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 28-29 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1270                                                 |
| DEC   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 03-03 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 840                                                  |
| DEC   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 21-21 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 402                                                  |
| DEC   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 23-23 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 566                                                  |
| JAN   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 06-06 | <.050                                                     | <.050                                                    | <.050                                                       | .530                                                            | .140                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | .140                                                                            | 687                                                  |
| JAN   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 07-07 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1620                                                 |
| JAN   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 12-12 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 469                                                  |
| JAN   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 15-15 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 876                                                  |
| JAN   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 21-21 | <.050                                                     | <.050                                                    | <.050                                                       | .340                                                            | .100                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 304                                                  |
| JAN   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 26-26 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1210                                                 |
| FEB   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 01-01 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1210                                                 |
| FEB   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 10-10 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1860                                                 |
| FEB   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 15-16 | <.050                                                     | <.050                                                    | <.050                                                       | .380                                                            | .110                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 768                                                  |
| FEB   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 22-22 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1040                                                 |
| FEB   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 26-26 | <.050                                                     | <.050                                                    | <.050                                                       | .460                                                            | .190                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 2800                                                 |
| MAR   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 07-08 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1060                                                 |
| MAR   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 16-17 | <.050                                                     | <.050                                                    | <.050                                                       | .720                                                            | .200                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | .120                                                                            | 1290                                                 |
| APR   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 28-28 | <.050                                                     | <.050                                                    | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1930                                                 |
| MAY   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 28-29 | 33.7                                                      | <.050                                                    | <.050                                                       | .950                                                            | .220                                                           | <.050                                                       | .050                                                        | .0500                                                         | <.05                                                                 | <.050                                                                           | 4290                                                 |
| JUN   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 05-05 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 7500                                                 |
| JUL   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 13-13 | 1.33                                                      | <.050                                                    | <.050                                                       | <.050                                                           | .520                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 2210                                                 |
| JUL   |                                                           |                                                          |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                      |
| 13-13 | --                                                        | --                                                       | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | --                                                   |

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|------------------------------------------------------|
| OCT   |      |                                                                       |                                                      |
| 23... | 2326 | .97                                                                   | 486                                                  |
| 24... | 0032 | 2.3                                                                   | 302                                                  |
| 24... | 0133 | 2.4                                                                   | 377                                                  |
| NOV   |      |                                                                       |                                                      |
| 28... | 2124 | .85                                                                   | 3120                                                 |
| 28... | 2221 | 3.6                                                                   | 2130                                                 |
| 28... | 2258 | 4.1                                                                   | 1620                                                 |
| 28... | 2335 | 4.0                                                                   | 1280                                                 |
| 29... | 0013 | 4.0                                                                   | 1200                                                 |
| 29... | 0050 | 4.0                                                                   | 1120                                                 |
| 29... | 0127 | 4.0                                                                   | 951                                                  |
| 29... | 0208 | 3.3                                                                   | 898                                                  |
| 29... | 0306 | 1.9                                                                   | 774                                                  |
| 29... | 0456 | 1.0                                                                   | 625                                                  |
| 29... | 0537 | .82                                                                   | 580                                                  |
| DEC   |      |                                                                       |                                                      |
| 03... | 0615 | .82                                                                   | 1390                                                 |
| 03... | 0738 | 1.4                                                                   | 816                                                  |
| 03... | 0945 | .82                                                                   | 510                                                  |
| 03... | 0948 | .82                                                                   | 512                                                  |
| 03... | 1028 | .82                                                                   | 447                                                  |
| 21... | 0617 | .94                                                                   | 1620                                                 |
| 21... | 0710 | 3.7                                                                   | 1300                                                 |
| 21... | 0755 | 2.9                                                                   | 912                                                  |
| 21... | 0906 | 1.7                                                                   | 654                                                  |
| 21... | 1028 | 2.0                                                                   | 748                                                  |
| 21... | 1155 | .91                                                                   | 513                                                  |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| DEC   |      |                                                                       |                                                       |
| 23... | 1448 | .91                                                                   | 1060                                                  |
| 23... | 1458 | .91                                                                   | 915                                                   |
| 23... | 1501 | .91                                                                   | 883                                                   |
| 23... | 1605 | .91                                                                   | 827                                                   |
| 23... | 1745 | 1.6                                                                   | 643                                                   |
| 23... | 1919 | 1.4                                                                   | 400                                                   |
| 23... | 2035 | 3.2                                                                   | 560                                                   |
| 23... | 2125 | 2.8                                                                   | 440                                                   |
| 23... | 2237 | 1.6                                                                   | 327                                                   |
| 24... | 0026 | 2.2                                                                   | 698                                                   |
| 24... | 0126 | 3.0                                                                   | 597                                                   |
| 24... | 0233 | 1.8                                                                   | 430                                                   |
| 24... | 0408 | 1.3                                                                   | 331                                                   |
| 24... | 0518 | .91                                                                   | 265                                                   |
| JAN   |      |                                                                       |                                                       |
| 04... | 2343 | .91                                                                   | 1160                                                  |
| 05... | 0051 | 3.4                                                                   | 1320                                                  |
| 05... | 0134 | 3.2                                                                   | 990                                                   |
| 05... | 0226 | 2.5                                                                   | 686                                                   |
| 05... | 0322 | 2.9                                                                   | 711                                                   |
| 05... | 0432 | 1.6                                                                   | 507                                                   |
| 05... | 0552 | .91                                                                   | 450                                                   |
| 06... | 0945 | .91                                                                   | 1080                                                  |
| 06... | 1048 | .88                                                                   | 623                                                   |
| 06... | 1447 | .91                                                                   | 675                                                   |
| 06... | 1620 | .91                                                                   | 433                                                   |
| 06... | 2140 | .91                                                                   | 589                                                   |
| 06... | 2301 | 1.6                                                                   | 546                                                   |
| 07... | 0033 | 1.7                                                                   | 416                                                   |
| 07... | 0137 | .91                                                                   | 329                                                   |
| 07... | 1744 | .97                                                                   | 3960                                                  |
| 07... | 1831 | 3.8                                                                   | 2150                                                  |
| 07... | 1914 | 3.2                                                                   | 1070                                                  |
| 07... | 2038 | 1.1                                                                   | 593                                                   |
| 07... | 2107 | .91                                                                   | 505                                                   |
| 12... | 0129 | .91                                                                   | 1170                                                  |
| 12... | 0152 | .91                                                                   | 902                                                   |
| 12... | 0154 | .91                                                                   | 882                                                   |
| 12... | 0158 | .91                                                                   | 873                                                   |
| 12... | 0330 | .91                                                                   | 628                                                   |
| 15... | 1503 | .94                                                                   | 2440                                                  |
| 15... | 1617 | 2.0                                                                   | 956                                                   |
| 15... | 1730 | 1.8                                                                   | 853                                                   |
| 15... | 1940 | 1.3                                                                   | 463                                                   |
| 15... | 2201 | .94                                                                   | 356                                                   |
| 15... | 2211 | .91                                                                   | 333                                                   |
| 21... | 1607 | .94                                                                   | 298                                                   |
| 21... | 1717 | .91                                                                   | 201                                                   |
| 21... | 1756 | .91                                                                   | 392                                                   |
| 21... | 1934 | .91                                                                   | 299                                                   |
| 21... | 1936 | .91                                                                   | 291                                                   |
| 21... | 2043 | .91                                                                   | 697                                                   |
| 21... | 2217 | 1.2                                                                   | 509                                                   |
| 22... | 0020 | 1.0                                                                   | 435                                                   |
| 22... | 0038 | .91                                                                   | 391                                                   |
| 22... | 0144 | .91                                                                   | 456                                                   |
| 22... | 0328 | 2.3                                                                   | 1030                                                  |
| 22... | 0429 | 2.6                                                                   | 819                                                   |
| 22... | 0545 | 1.5                                                                   | 558                                                   |
| 22... | 0653 | .91                                                                   | 414                                                   |
| 26... | 1238 | .94                                                                   | 1850                                                  |
| 26... | 1336 | .91                                                                   | 805                                                   |
| FEB   |      |                                                                       |                                                       |
| 01... | 1515 | .94                                                                   | 1350                                                  |
| 10... | 1844 | .97                                                                   | 6720                                                  |
| 10... | 2030 | 2.3                                                                   | 1470                                                  |
| 10... | 2139 | 1.9                                                                   | 1090                                                  |
| 10... | 2237 | .91                                                                   | 943                                                   |
| 15... | 1931 | .91                                                                   | 1280                                                  |
| 15... | 2052 | 2.3                                                                   | 922                                                   |
| 15... | 2213 | 1.4                                                                   | 672                                                   |
| 15... | 2317 | .91                                                                   | 536                                                   |
| 16... | 0154 | .91                                                                   | 422                                                   |
| 16... | 0156 | .91                                                                   | 405                                                   |
| 16... | 0211 | .91                                                                   | 386                                                   |
| 16... | 0213 | .91                                                                   | 356                                                   |
| 16... | 0338 | .91                                                                   | 378                                                   |
| 16... | 0357 | .91                                                                   | 354                                                   |
| 16... | 2052 | .94                                                                   | 2960                                                  |
| 16... | 2150 | 2.7                                                                   | 2520                                                  |
| 16... | 2303 | 1.4                                                                   | 1300                                                  |
| 22... | 1118 | .94                                                                   | 1320                                                  |
| 22... | 1252 | 1.4                                                                   | 938                                                   |
| 26... | 1142 | 1.0                                                                   | 2800                                                  |
| 26... | 1211 | 5.9                                                                   | 3200                                                  |
| 26... | 1237 | 5.6                                                                   | 2400                                                  |
| 26... | 1318 | 2.1                                                                   | 1750                                                  |
| 26... | 1429 | .91                                                                   | 1120                                                  |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998--Continued

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | FLUO-<br>METURON<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99773) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------|
| MAR   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                      |
| 07... | 0852 | .97                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 4180                                                 |
| 07... | 1019 | .91                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1050                                                 |
| 07... | 1154 | 1.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 681                                                  |
| 07... | 1338 | 1.8                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 635                                                  |
| 07... | 1508 | 1.9                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 669                                                  |
| 07... | 1649 | 1.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 563                                                  |
| 07... | 1806 | 3.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1110                                                 |
| 07... | 1950 | 3.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1050                                                 |
| 07... | 2053 | 2.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1420                                                 |
| 07... | 2157 | 2.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1050                                                 |
| 07... | 2243 | 3.4                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1190                                                 |
| 08... | 0001 | 1.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 708                                                  |
| 08... | 0027 | .91                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 628                                                  |
| 16... | 2022 | 1.7                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 5010                                                 |
| 16... | 2100 | 4.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1440                                                 |
| 16... | 2139 | 5.0                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1080                                                 |
| 16... | 2211 | 4.8                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 945                                                  |
| 16... | 2243 | 4.7                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 813                                                  |
| 16... | 2327 | 2.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 809                                                  |
| 17... | 0104 | .88                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 637                                                  |
| APR   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                      |
| 28... | 0215 | 3.7                                                                   | .230                                                                     | 4.6                                                                            | 4.40                                                                     | .026                                                                     | .060                                                                     | .450                                                  | 1.70                                                                        | 4630                                                 |
| 28... | 0250 | 2.4                                                                   | .120                                                                     | 2.9                                                                            | 3.90                                                                     | .024                                                                     | .070                                                                     | .540                                                  | 1.40                                                                        | 2000                                                 |
| 28... | 0328 | 1.3                                                                   | .180                                                                     | 2.8                                                                            | 5.00                                                                     | .030                                                                     | .070                                                                     | .500                                                  | 1.60                                                                        | 1330                                                 |
| 28... | 0455 | .63                                                                   | .160                                                                     | 2.8                                                                            | 5.50                                                                     | .030                                                                     | .050                                                                     | .440                                                  | 1.79                                                                        | 1170                                                 |
| 28... | 0502 | .63                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1060                                                 |
| MAY   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                      |
| 28... | 2005 | 1.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 9590                                                 |
| 29... | 0123 | 1.0                                                                   | 3.20                                                                     | 17                                                                             | 11.0                                                                     | .140                                                                     | .040                                                                     | .960                                                  | 117                                                                         | 7520                                                 |
| 29... | 0221 | .91                                                                   | 3.60                                                                     | 15                                                                             | 12.0                                                                     | .150                                                                     | .050                                                                     | 1.10                                                  | 90.8                                                                        | 2940                                                 |
| 29... | 0322 | 5.9                                                                   | 2.10                                                                     | 7.0                                                                            | 4.40                                                                     | .060                                                                     | .060                                                                     | 1.40                                                  | 69.4                                                                        | 4110                                                 |
| 29... | 0346 | 7.0                                                                   | 2.40                                                                     | 8.9                                                                            | 5.80                                                                     | .068                                                                     | .050                                                                     | .910                                                  | 71.8                                                                        | 2870                                                 |
| 29... | 0409 | 5.9                                                                   | 2.50                                                                     | 9.1                                                                            | 6.90                                                                     | .073                                                                     | .070                                                                     | 1.00                                                  | 69.3                                                                        | 1920                                                 |
| 29... | 0442 | 4.8                                                                   | 2.50                                                                     | 12                                                                             | 6.80                                                                     | .069                                                                     | .060                                                                     | 1.30                                                  | 51.3                                                                        | 3690                                                 |
| 29... | 0459 | 14                                                                    | 1.40                                                                     | 5.8                                                                            | 2.80                                                                     | .042                                                                     | .080                                                                     | 1.20                                                  | 33.1                                                                        | 7210                                                 |
| 29... | 0509 | 18                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 5750                                                 |
| 29... | 0518 | 18                                                                    | 1.10                                                                     | 12                                                                             | 2.20                                                                     | .032                                                                     | .080                                                                     | .840                                                  | 36.9                                                                        | 4880                                                 |
| 29... | 0526 | 18                                                                    | 1.10                                                                     | 7.1                                                                            | 2.20                                                                     | .032                                                                     | .080                                                                     | .810                                                  | 26.0                                                                        | 4060                                                 |
| 29... | 0535 | 17                                                                    | 1.10                                                                     | 4.3                                                                            | 2.30                                                                     | .032                                                                     | .090                                                                     | .960                                                  | 31.3                                                                        | 3300                                                 |
| 29... | 0544 | 17                                                                    | 1.10                                                                     | 6.4                                                                            | 2.20                                                                     | .030                                                                     | .070                                                                     | .700                                                  | 35.6                                                                        | 2950                                                 |
| 29... | 0553 | 17                                                                    | 1.10                                                                     | 8.1                                                                            | 2.10                                                                     | .030                                                                     | .080                                                                     | .940                                                  | 42.2                                                                        | 3060                                                 |
| 29... | 0602 | 18                                                                    | 1.30                                                                     | 7.8                                                                            | 2.60                                                                     | .033                                                                     | .090                                                                     | .860                                                  | 28.5                                                                        | 2120                                                 |
| 29... | 0610 | 19                                                                    | 1.10                                                                     | 7.2                                                                            | 2.40                                                                     | .030                                                                     | .080                                                                     | 1.10                                                  | 33.1                                                                        | 2070                                                 |
| 29... | 0618 | 18                                                                    | 1.10                                                                     | 6.2                                                                            | 2.10                                                                     | .028                                                                     | .090                                                                     | 1.00                                                  | 32.1                                                                        | 2330                                                 |
| 29... | 0627 | 18                                                                    | .990                                                                     | 7.7                                                                            | 2.20                                                                     | .028                                                                     | .100                                                                     | 1.00                                                  | 30.9                                                                        | 1680                                                 |
| 29... | 0636 | 17                                                                    | 1.10                                                                     | 6.8                                                                            | 2.40                                                                     | .028                                                                     | .090                                                                     | .820                                                  | 22.9                                                                        | --                                                   |
| 29... | 0645 | 16                                                                    | 1.10                                                                     | 6.7                                                                            | 2.50                                                                     | .030                                                                     | .080                                                                     | .560                                                  | 29.5                                                                        | 1480                                                 |
| 29... | 0655 | 15                                                                    | 1.10                                                                     | 6.7                                                                            | 2.60                                                                     | .032                                                                     | .090                                                                     | .580                                                  | 29.2                                                                        | 1440                                                 |
| 29... | 0705 | 15                                                                    | 1.00                                                                     | 4.7                                                                            | 2.70                                                                     | .031                                                                     | .100                                                                     | .800                                                  | 32.4                                                                        | 1390                                                 |
| 29... | 0716 | 14                                                                    | 1.10                                                                     | 6.6                                                                            | 2.80                                                                     | .034                                                                     | .100                                                                     | .840                                                  | 31.5                                                                        | 1380                                                 |
| 29... | 0728 | 13                                                                    | 1.20                                                                     | 5.4                                                                            | 2.90                                                                     | .034                                                                     | .130                                                                     | .640                                                  | 25.4                                                                        | 1290                                                 |
| JUN   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                      |
| 05... | 1235 | 1.5                                                                   | 1.30                                                                     | 22                                                                             | 1.40                                                                     | .023                                                                     | .060                                                                     | 1.10                                                  | 30.5                                                                        | --                                                   |
| JUL   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                                             |                                                      |
| 13... | 0348 | .91                                                                   | .240                                                                     | 2.9                                                                            | .980                                                                     | .020                                                                     | .040                                                                     | .500                                                  | 2.82                                                                        | 4900                                                 |
| 13... | 0447 | 1.3                                                                   | .330                                                                     | 3.8                                                                            | 4.80                                                                     | .027                                                                     | .060                                                                     | .340                                                  | 7.75                                                                        | 1480                                                 |
| 13... | 0618 | .85                                                                   | .470                                                                     | 1.6                                                                            | 7.00                                                                     | .042                                                                     | .070                                                                     | .690                                                  | 18.2                                                                        | 1180                                                 |
| 13... | 0748 | .91                                                                   | .460                                                                     | .95                                                                            | 6.50                                                                     | .049                                                                     | .040                                                                     | .420                                                  | 18.9                                                                        | 2610                                                 |
| 13... | 1135 | .88                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 1690                                                 |
| 13... | 1215 | .82                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                          | 687                                                  |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## DISCRETE SAMPLE SUPPLEMENTAL DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

|       |       | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>WATER,<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)  | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) |                                                                                       |
|-------|-------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| APR   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                       |
| 28... | 0215  | <.050                                                                       | --                                                                   | <.050                                                          | .210                                                                                    | .170                                                          | .110                                                            | .150                                                                   | .0700                                                                    | .180                                                                       | <.050                                                                     | 5.74                                                                         |                                                                                       |
| 28... | 0250  | <.050                                                                       | <.0500                                                               | <.050                                                          | .170                                                                                    | .100                                                          | .120                                                            | .200                                                                   | .0500                                                                    | .100                                                                       | <.050                                                                     | 5.88                                                                         |                                                                                       |
| MAY   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                       |
| 29... | 0123  | <.050                                                                       | <.0500                                                               | <.050                                                          | 1.190                                                                                   | .440                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 14.06                                                                        |                                                                                       |
| 29... | 0346  | <.050                                                                       | <.0500                                                               | <.050                                                          | .440                                                                                    | .160                                                          | .0700                                                           | .090                                                                   | <.0500                                                                   | <.0500                                                                     | <.050                                                                     | 16.60                                                                        |                                                                                       |
| 29... | 0459  | <.050                                                                       | <.0500                                                               | <.050                                                          | .330                                                                                    | .170                                                          | <.0500                                                          | <.050                                                                  | .130                                                                     | <.0500                                                                     | <.050                                                                     | 2.69                                                                         |                                                                                       |
| 29... | 0518  | <.050                                                                       | <.0500                                                               | <.050                                                          | .220                                                                                    | .480                                                          | <.0500                                                          | <.050                                                                  | .150                                                                     | <.0500                                                                     | <.050                                                                     | <.050                                                                        |                                                                                       |
| 29... | 0526  | <.050                                                                       | <.0500                                                               | <.050                                                          | .220                                                                                    | 3.60                                                          | .0500                                                           | <.050                                                                  | .270                                                                     | .340                                                                       | <.050                                                                     | 10.56                                                                        |                                                                                       |
| 29... | 0636  | <.050                                                                       | <.0500                                                               | <.050                                                          | .230                                                                                    | 7.88                                                          | <.0500                                                          | <.050                                                                  | .400                                                                     | .400                                                                       | <.050                                                                     | 3.09                                                                         |                                                                                       |
| 29... | 0728  | <.050                                                                       | <.0500                                                               | <.050                                                          | .180                                                                                    | 12.8                                                          | .0600                                                           | <.050                                                                  | .400                                                                     | .450                                                                       | <.050                                                                     | 7.67                                                                         |                                                                                       |
| JUN   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                       |
| 05... | 1235  | <.050                                                                       | <.0500                                                               | <.050                                                          | .380                                                                                    | .410                                                          | <.0500                                                          | <.050                                                                  | <.0500                                                                   | <.0500                                                                     | .050                                                                      | 13.92                                                                        |                                                                                       |
| JUL   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                       |
| 13... | 0348  | <.050                                                                       | <.0500                                                               | <.050                                                          | .050                                                                                    | <.050                                                         | 33.3                                                            | 4.76                                                                   | <.0500                                                                   | .340                                                                       | .120                                                                      | 1.69                                                                         |                                                                                       |
| 13... | 0618  | <.050                                                                       | --                                                                   | <.050                                                          | .180                                                                                    | .050                                                          | 63.9                                                            | 10.3                                                                   | <.0500                                                                   | <.0500                                                                     | .220                                                                      | 2.51                                                                         |                                                                                       |
|       |       | DEMETH-<br>YLNORP-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)                                | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)   | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)         | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)         | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>REC<br>(UG/L)<br>(50473) |
| APR   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                       |
| 28... | 2.79  | 1.44                                                                        | .100                                                                 | <.050                                                          | <.050                                                                                   | 1.72                                                          | .110                                                            | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                       |
| 28... | 4.06  | 1.69                                                                        | .150                                                                 | <.050                                                          | <.050                                                                                   | 1.66                                                          | .0900                                                           | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                       |
| MAY   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                       |
| 29... | 2.68  | 89.5                                                                        | 14.8                                                                 | <.050                                                          | .050                                                                                    | 1.28                                                          | .200                                                            | <.050                                                                  | <.050                                                                    | .0500                                                                      | <.05                                                                      | <.050                                                                        |                                                                                       |
| 29... | .380  | 42.8                                                                        | 2.54                                                                 | <.050                                                          | <.050                                                                                   | .330                                                          | .110                                                            | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | .770                                                                         |                                                                                       |
| 29... | .600  | 29.9                                                                        | 4.47                                                                 | <.050                                                          | <.050                                                                                   | .510                                                          | .0900                                                           | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                       |
| 29... | 7.38  | 42.7                                                                        | 5.21                                                                 | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | .440                                                                         |                                                                                       |
| 29... | .330  | 31.3                                                                        | 18.0                                                                 | <.050                                                          | <.050                                                                                   | .290                                                          | .0800                                                           | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | .480                                                                         |                                                                                       |
| 29... | <.050 | 26.5                                                                        | 4.57                                                                 | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | <.050                                                                  | .110                                                                     | .0700                                                                      | <.05                                                                      | <.050                                                                        |                                                                                       |
| 29... | .110  | 30.6                                                                        | 5.88                                                                 | <.050                                                          | <.050                                                                                   | .080                                                          | .0700                                                           | <.050                                                                  | .140                                                                     | .0900                                                                      | <.05                                                                      | .470                                                                         |                                                                                       |
| JUN   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                       |
| 05... | <.050 | 50.9                                                                        | 23.8                                                                 | <.050                                                          | .610                                                                                    | .230                                                          | .130                                                            | <.050                                                                  | <.050                                                                    | <.0500                                                                     | <.05                                                                      | <.050                                                                        |                                                                                       |
| JUL   |       |                                                                             |                                                                      |                                                                |                                                                                         |                                                               |                                                                 |                                                                        |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                       |
| 13... | <.050 | 3.69                                                                        | .190                                                                 | <.050                                                          | <.050                                                                                   | <.050                                                         | .210                                                            | <.050                                                                  | <.050                                                                    | .100                                                                       | <.05                                                                      | .130                                                                         |                                                                                       |
| 13... | <.050 | 14.1                                                                        | 1.27                                                                 | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                          | 1.81                                                                   | <.050                                                                    | .180                                                                       | <.05                                                                      | <.050                                                                        |                                                                                       |

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

|              |                                                                               |                                                               | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613)   | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)  | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                        | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                    | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) |      |
|--------------|-------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|------|
| NOV<br>14-14 | 1249                                                                          | 1510                                                          | .740                                                                     | 3.5                                                                            | 9.20                                                                     | <.010                                                                      | .290                                                                      | .580                                                                         | 7.1                                                                         | <.050                                                                       | <.0500                                                               | <.050                                                          |      |
| NOV<br>20-20 | 0517                                                                          | 0710                                                          | .240                                                                     | 3.2                                                                            | 4.10                                                                     | <.010                                                                      | .230                                                                      | .720                                                                         | 5.8                                                                         | <.050                                                                       | <.0500                                                               | <.050                                                          |      |
| DEC<br>27-28 | 2300                                                                          | 0456                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| JAN<br>08-09 | 0718                                                                          | 0212                                                          | .090                                                                     | 5.0                                                                            | 1.20                                                                     | <.010                                                                      | .560                                                                      | 1.30                                                                         | 7.3                                                                         | <.050                                                                       | --                                                                   | <.050                                                          |      |
| JAN<br>22-22 | 0933                                                                          | 2036                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| JAN<br>29-29 | 0402                                                                          | 1142                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| MAR<br>02-02 | 1557                                                                          | 1641                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| MAR<br>31-31 | 0636                                                                          | 0746                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| APR<br>03-04 | 2106                                                                          | 0525                                                          | <.010                                                                    | 3.8                                                                            | 1.90                                                                     | .010                                                                       | .030                                                                      | 1.10                                                                         | 4.0                                                                         | <.050                                                                       | <.0500                                                               | <.050                                                          |      |
| APR<br>14-15 | 2131                                                                          | 0134                                                          | .050                                                                     | 5.3                                                                            | .710                                                                     | .020                                                                       | .060                                                                      | 1.40                                                                         | 7.4                                                                         | <.050                                                                       | <.0500                                                               | <.050                                                          |      |
| APR<br>26-26 | 1700                                                                          | 2127                                                          | .040                                                                     | 5.8                                                                            | 4.10                                                                     | .020                                                                       | .040                                                                      | 1.40                                                                         | 9.0                                                                         | <.050                                                                       | <.0500                                                               | <.050                                                          |      |
| MAY<br>05-05 | 1949                                                                          | 2026                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| MAY<br>31-31 | 0833                                                                          | 1102                                                          | .030                                                                     | 3.0                                                                            | 6.70                                                                     | .030                                                                       | .040                                                                      | .880                                                                         | 12                                                                          | <.050                                                                       | --                                                                   | <.050                                                          |      |
| DATE         | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)           | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)         | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>METURON<br>WAT FLT<br>REC<br>UNADJ<br>(UG/L)<br>(99773)           | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      |      |
|              | NOV<br>14-14                                                                  | .140                                                          | <.050                                                                    | .0500                                                                          | .220                                                                     | <.0500                                                                     | <.0500                                                                    | <.050                                                                        | 9.70                                                                        | 1.18                                                                        | --                                                                   | 2.70                                                           | .550 |
|              | NOV<br>20-20                                                                  | .070                                                          | <.050                                                                    | <.0500                                                                         | <.050                                                                    | <.0500                                                                     | <.0500                                                                    | <.050                                                                        | 6.65                                                                        | .180                                                                        | --                                                                   | 2.32                                                           | .220 |
|              | DEC<br>27-28                                                                  | --                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             | --   |
|              | JAN<br>08-09                                                                  | .050                                                          | <.050                                                                    | <.0500                                                                         | .130                                                                     | <.0500                                                                     | .190                                                                      | <.050                                                                        | 4.31                                                                        | 1.10                                                                        | --                                                                   | 1.83                                                           | .120 |
| JAN<br>22-22 | --                                                                            | --                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| JAN<br>29-29 | --                                                                            | --                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| MAR<br>02-02 | --                                                                            | --                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| MAR<br>31-31 | --                                                                            | --                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| APR<br>03-04 | <.050                                                                         | <.050                                                         | <.0500                                                                   | <.050                                                                          | <.0500                                                                   | .100                                                                       | <.050                                                                     | 2.02                                                                         | <.050                                                                       | --                                                                          | .340                                                                 | <.050                                                          |      |
| APR<br>14-15 | <.050                                                                         | .120                                                          | <.0500                                                                   | <.050                                                                          | <.0500                                                                   | .240                                                                       | <.050                                                                     | 1.17                                                                         | <.050                                                                       | --                                                                          | .200                                                                 | <.050                                                          |      |
| APR<br>26-26 | <.050                                                                         | .080                                                          | .0700                                                                    | <.050                                                                          | <.0500                                                                   | .190                                                                       | <.050                                                                     | 2.49                                                                         | .690                                                                        | --                                                                          | .310                                                                 | .120                                                           |      |
| MAY<br>05-05 | --                                                                            | --                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                          | --                                                                          | --                                                                   | --                                                             |      |
| MAY<br>31-31 | .120                                                                          | .100                                                          | <.0500                                                                   | <.050                                                                          | <.0500                                                                   | .130                                                                       | <.050                                                                     | 3.88                                                                         | 5.84                                                                        | .94                                                                         | 1.19                                                                 | .110                                                           |      |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

## 0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

| DATE         | METRI-<br>BUZIN<br>SATOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | METRI-<br>BUZIN<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99774) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|--------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------|
|              |                                                                   |                                                                            |                                                             |                                                                 |                                                                |                                                             |                                                             |                                                               |                                                                      |                                                                                 |                                                       |
| NOV<br>14-14 | <.050                                                             | --                                                                         | <.050                                                       | .880                                                            | .250                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 750                                                   |
| NOV<br>20-20 | <.050                                                             | --                                                                         | <.050                                                       | .170                                                            | .180                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1120                                                  |
| DEC<br>27-28 | --                                                                | --                                                                         | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 1220                                                  |
| JAN<br>08-09 | <.050                                                             | --                                                                         | <.050                                                       | .510                                                            | .0600                                                          | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 2710                                                  |
| JAN<br>22-22 | --                                                                | --                                                                         | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 4980                                                  |
| JAN<br>29-29 | --                                                                | --                                                                         | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 3680                                                  |
| MAR<br>02-02 | --                                                                | --                                                                         | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 5270                                                  |
| MAR<br>31-31 | --                                                                | --                                                                         | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 165                                                   |
| APR<br>03-04 | <.050                                                             | --                                                                         | <.050                                                       | <.050                                                           | .0500                                                          | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 2000                                                  |
| APR<br>14-15 | <.050                                                             | --                                                                         | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | .070                                                                            | 2970                                                  |
| APR<br>26-26 | 45.4                                                              | --                                                                         | <.050                                                       | .400                                                            | .140                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 2720                                                  |
| MAY<br>05-05 | --                                                                | --                                                                         | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                              | 12400                                                 |
| MAY<br>31-31 | 2.65                                                              | 2.92                                                                       | <.050                                                       | 1.92                                                            | .180                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                           | 1350                                                  |

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

[illegible]

## 0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

[illegible]

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

|       |      |     |      |     |      |       |       |      |    |     |      |       |
|-------|------|-----|------|-----|------|-------|-------|------|----|-----|------|-------|
| APR   |      |     |      |     |      |       |       |      |    |     |      |       |
| 03... | 2107 | 1.5 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 7350  |
| 03... | 2126 | 9.1 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 4570  |
| 03... | 2143 | 8.9 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 3060  |
| 03... | 2201 | 7.7 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 2020  |
| 03... | 2225 | 5.2 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 1590  |
| 03... | 2308 | 3.3 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 1120  |
| 03... | 2351 | 4.5 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 1080  |
| 04... | 0031 | 3.7 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 959   |
| 04... | 0123 | 2.2 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 736   |
| 04... | 0308 | 1.2 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 486   |
| 04... | 0524 | .61 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 428   |
| 05... | 0435 | .66 | .100 | 6.7 | 1.50 | .010  | .040  | 1.50 | -- | .55 | --   | 2770  |
| 05... | 0502 | .61 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 1480  |
| 06... | 0042 | .66 | .030 | 5.9 | 1.50 | .010  | .040  | 1.40 | -- | .47 | --   | 2460  |
| 14... | 2132 | .88 | .090 | 20  | .570 | <.010 | E.040 | 5.10 | -- | .16 | --   | 7410  |
| 14... | 2158 | 6.5 | .070 | 6.7 | .320 | <.010 | E.050 | 2.00 | -- | .07 | --   | 2930  |
| 14... | 2219 | 7.9 | .060 | 5.4 | .300 | <.010 | E.060 | 1.80 | -- | .07 | --   | 3160  |
| 14... | 2241 | 5.6 | .060 | 3.6 | .610 | <.010 | E.050 | 1.40 | -- | .19 | --   | 1910  |
| 14... | 2400 | 1.1 | .070 | 2.7 | 1.30 | <.010 | E.040 | 1.10 | -- | .20 | --   | 1200  |
| 15... | 0134 | .61 | .060 | 2.2 | 1.90 | <.010 | E.050 | .780 | -- | .21 | --   | 802   |
| 26... | 1700 | .66 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 5940  |
| 26... | 1823 | 1.3 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 2170  |
| 26... | 2051 | .61 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 2010  |
| 26... | 2125 | .61 | --   | --  | --   | --    | --    | --   | -- | --  | --   | 1240  |
| MAY   |      |     |      |     |      |       |       |      |    |     |      |       |
| 05... | 1949 | .61 | .060 | 20  | 1.90 | .020  | .020  | 6.80 | -- | .92 | --   | 12100 |
| 31... | 0831 | .50 | .020 | 3.6 | 4.80 | .030  | .030  | 1.20 | -- | .96 | 2.68 | 2010  |
| 31... | 0913 | 4.3 | .020 | 2.5 | 6.40 | .030  | .030  | .740 | -- | .66 | 2.80 | 1270  |
| 31... | 1009 | 1.7 | .020 | 2.1 | 8.40 | .030  | .030  | .540 | -- | .72 | 5.00 | 673   |

## DISCRETE SAMPLE SUPPLEMENTAL DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

|       |       | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)      | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>WATER,<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632) | CYANA-<br>ZINE-<br>ZINE-<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041) | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) |                                                                                |
|-------|-------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| NOV   |       |                                                                             |                                                                     |                                                                |                                                                                         |                                                               |                                                                         |                                                                        |                                                                 |                                                                            |                                                                           |                                                                             |                                                                                |
| 14... | 1420  | <.050                                                                       | <.0500                                                              | <.050                                                          | .100                                                                                    | <.050                                                         | .130                                                                    | .540                                                                   | <.0500                                                          | .410                                                                       | .050                                                                      | 2.97                                                                        |                                                                                |
| 20... | 0706  | <.050                                                                       | <.0500                                                              | <.050                                                          | .090                                                                                    | <.050                                                         | <.0500                                                                  | .490                                                                   | <.0500                                                          | .430                                                                       | <.050                                                                     | 6.42                                                                        |                                                                                |
| DEC   |       |                                                                             |                                                                     |                                                                |                                                                                         |                                                               |                                                                         |                                                                        |                                                                 |                                                                            |                                                                           |                                                                             |                                                                                |
| 11... | 1843  | <.050                                                                       | <.0500                                                              | <.050                                                          | .080                                                                                    | <.050                                                         | <.0500                                                                  | .290                                                                   | .180                                                            | <.0500                                                                     | <.050                                                                     | 9.33                                                                        |                                                                                |
| 11... | 2113  | <.050                                                                       | <.0500                                                              | <.050                                                          | <.050                                                                                   | .090                                                          | .380                                                                    | .340                                                                   | <.0500                                                          | .190                                                                       | <.050                                                                     | .240                                                                        |                                                                                |
| APR   |       |                                                                             |                                                                     |                                                                |                                                                                         |                                                               |                                                                         |                                                                        |                                                                 |                                                                            |                                                                           |                                                                             |                                                                                |
| 05... | 0435  | <.050                                                                       | <.0500                                                              | <.050                                                          | .060                                                                                    | <.050                                                         | <.0500                                                                  | <.050                                                                  | <.0500                                                          | .170                                                                       | <.050                                                                     | 2.39                                                                        |                                                                                |
| 14... | 2219  | <.050                                                                       | <.0500                                                              | <.050                                                          | <.050                                                                                   | .060                                                          | <.0500                                                                  | <.050                                                                  | <.0500                                                          | .0800                                                                      | <.050                                                                     | <.050                                                                       |                                                                                |
| MAY   |       |                                                                             |                                                                     |                                                                |                                                                                         |                                                               |                                                                         |                                                                        |                                                                 |                                                                            |                                                                           |                                                                             |                                                                                |
| 31... | 0831  | <.050                                                                       | <.0500                                                              | <.050                                                          | .100                                                                                    | .080                                                          | <.0500                                                                  | <.050                                                                  | <.0500                                                          | .140                                                                       | <.050                                                                     | 2.18                                                                        |                                                                                |
| 31... | 0913  | <.0505                                                                      | <.0500                                                              | <.050                                                          | .160                                                                                    | .080                                                          | <.0500                                                                  | <.050                                                                  | <.0500                                                          | .140                                                                       | <.050                                                                     | 2.68                                                                        |                                                                                |
| 31... | 1009  | <.050                                                                       | <.0500                                                              | <.050                                                          | .110                                                                                    | .060                                                          | <.0500                                                                  | <.050                                                                  | <.0500                                                          | .160                                                                       | <.050                                                                     | 2.75                                                                        |                                                                                |
| DATE  | TIME  | DEMETH-<br>YLNOF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380)  | FLUO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)                                | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)   | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)         | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)         | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)     | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)        | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) |
| NOV   |       |                                                                             |                                                                     |                                                                |                                                                                         |                                                               |                                                                         |                                                                        |                                                                 |                                                                            |                                                                           |                                                                             |                                                                                |
| 14... | <.050 | 5.30                                                                        | .250                                                                | <.050                                                          | <.050                                                                                   | .180                                                          | .120                                                                    | <.050                                                                  | <.050                                                           | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |
| 20... | <.050 | 6.18                                                                        | .090                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | .0500                                                                   | <.050                                                                  | <.050                                                           | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |
| DEC   |       |                                                                             |                                                                     |                                                                |                                                                                         |                                                               |                                                                         |                                                                        |                                                                 |                                                                            |                                                                           |                                                                             |                                                                                |
| 11... | .490  | 4.35                                                                        | .140                                                                | <.050                                                          | <.050                                                                                   | .300                                                          | .120                                                                    | <.050                                                                  | <.050                                                           | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |
| 11... | <.050 | 1.41                                                                        | .140                                                                | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                                  | <.050                                                                  | <.050                                                           | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |
| APR   |       |                                                                             |                                                                     |                                                                |                                                                                         |                                                               |                                                                         |                                                                        |                                                                 |                                                                            |                                                                           |                                                                             |                                                                                |
| 05... | .460  | .520                                                                        | .060                                                                | <.050                                                          | <.050                                                                                   | .200                                                          | .0900                                                                   | <.050                                                                  | <.050                                                           | <.0500                                                                     | <.05                                                                      | .220                                                                        |                                                                                |
| 14... | <.050 | .100                                                                        | <.050                                                               | <.050                                                          | <.050                                                                                   | <.050                                                         | <.0500                                                                  | <.050                                                                  | <.050                                                           | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |
| MAY   |       |                                                                             |                                                                     |                                                                |                                                                                         |                                                               |                                                                         |                                                                        |                                                                 |                                                                            |                                                                           |                                                                             |                                                                                |
| 31... | 2.43  | .670                                                                        | .130                                                                | 1.87                                                           | <.050                                                                                   | 1.00                                                          | .0800                                                                   | <.050                                                                  | <.050                                                           | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |
| 31... | 1.93  | .830                                                                        | .070                                                                | 2.53                                                           | <.050                                                                                   | .690                                                          | .0900                                                                   | <.050                                                                  | <.050                                                           | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |
| 31... | .220  | .720                                                                        | .060                                                                | 2.91                                                           | <.050                                                                                   | .070                                                          | .0500                                                                   | <.050                                                                  | <.050                                                           | <.0500                                                                     | <.05                                                                      | <.050                                                                       |                                                                                |



## 0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS, MS--Continued

GRAB SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE         | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|--------------|------|-----------------------------------------------------------------------|-------------------------------------------------------|
| MAR<br>19... | 1440 | .82                                                                   | 600                                                   |

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

[illegible]



## 0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS. MS--Continued

0728862210 BROWNS BAYOU TRIBUTARY NO 3 NEAR INVERNESS. MS--Continued

DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

|       |      | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | ATRA-<br>ZINE<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99775) | FLUO-<br>METURON<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99773) | METRI-<br>BUZIN<br>WAT FLT<br>REC<br>IMMUNO.<br>UNADJ<br>(UG/L)<br>(99774) | SEDI-<br>MENT,<br>SUS-<br>PENDEd<br>(MG/L)<br>(80154) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------|
| MAR   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                       |
| 19... | 0031 | 3.1                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1750                                                  |
| 19... | 0122 | 2.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1330                                                  |
| 19... | 0201 | 5.1                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1890                                                  |
| 19... | 0228 | 5.8                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1710                                                  |
| 19... | 0253 | 6.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 3090                                                  |
| 19... | 0318 | 5.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1900                                                  |
| 19... | 0359 | 2.4                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1320                                                  |
| 19... | 0524 | 1.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 17800                                                 |
| 19... | 0747 | .88                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 8780                                                  |
| 19... | 0944 | 3.4                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1420                                                  |
| 19... | 1029 | 3.1                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1340                                                  |
| 19... | 1120 | 3.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1110                                                  |
| 19... | 1214 | 2.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 861                                                   |
| 19... | 1403 | 1.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 33200                                                 |
| 19... | 1439 | .82                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1260                                                  |
| 19... | 1529 | .56                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 515                                                   |
| 27... | 0019 | 1.1                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 13400                                                 |
| 27... | 0105 | 2.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 2450                                                  |
| 27... | 0254 | .68                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1460                                                  |
| 27... | 0311 | .54                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1330                                                  |
| 29... | 1237 | .68                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 5600                                                  |
| 29... | 1326 | 2.0                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 2520                                                  |
| 29... | 1450 | .54                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1630                                                  |
| 30... | 0034 | .71                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 7720                                                  |
| 30... | 0125 | 1.2                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 2070                                                  |
| APR   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                       |
| 01... | 1606 | .56                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 3270                                                  |
| 01... | 1654 | .66                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 9770                                                  |
| 01... | 1720 | 6.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 5910                                                  |
| 01... | 1810 | 1.5                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 3250                                                  |
| 01... | 1842 | 15                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 6870                                                  |
| 01... | 1851 | 18                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 6050                                                  |
| 01... | 1859 | 18                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 4760                                                  |
| 01... | 1907 | 18                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 3960                                                  |
| 01... | 1916 | 18                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 3290                                                  |
| 01... | 1924 | E20                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 3200                                                  |
| 01... | 1931 | E20                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 2810                                                  |
| 01... | 1939 | 19                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 2760                                                  |
| 01... | 1947 | 18                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 2520                                                  |
| 01... | 1956 | 17                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 2580                                                  |
| 01... | 2005 | 16                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 2570                                                  |
| 01... | 2014 | 15                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1930                                                  |
| 01... | 2025 | 14                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1900                                                  |
| 01... | 2036 | 13                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 2690                                                  |
| 01... | 2047 | 12                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 2200                                                  |
| 01... | 2101 | 11                                                                    | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1510                                                  |
| 01... | 2116 | 8.9                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1430                                                  |
| 01... | 2135 | 6.6                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1350                                                  |
| 01... | 2212 | 2.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1600                                                  |
| 01... | 2243 | 9.3                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 7380                                                  |
| 07... | 2348 | .46                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 8650                                                  |
| MAY   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                       |
| 03... | 0505 | 1.1                                                                   | 4.70                                                                     | 18                                                                             | 18.0                                                                     | .060                                                                     | .030                                                                     | 1.90                                                  | .47                                                                      | --                                                                          | --                                                                         | --                                                    |
| 04... | 1805 | .66                                                                   | 5.10                                                                     | 31                                                                             | 19.0                                                                     | .040                                                                     | .010                                                                     | 6.30                                                  | .24                                                                      | --                                                                          | --                                                                         | --                                                    |
| JUN   |      |                                                                       |                                                                          |                                                                                |                                                                          |                                                                          |                                                                          |                                                       |                                                                          |                                                                             |                                                                            |                                                       |
| 05... | 0320 | .54                                                                   | 2.10                                                                     | 7.0                                                                            | 3.70                                                                     | .050                                                                     | .050                                                                     | 1.10                                                  | 332                                                                      | --                                                                          | --                                                                         | 1900                                                  |
| 17... | 1615 | .54                                                                   | 2.00                                                                     | 6.5                                                                            | 5.90                                                                     | .100                                                                     | .070                                                                     | 1.00                                                  | 139                                                                      | --                                                                          | --                                                                         | 1630                                                  |
| 17... | 1619 | .56                                                                   | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                       | --                                                    | --                                                                       | --                                                                          | --                                                                         | 1500                                                  |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862211 BROWNS BAYOU NEAR INVERNESS, MS

LOCATION.--Lat 33°21'28", long 90°30'37", in NW¼, SE¼, sec.4, T.17 N., R.3 W., Choctaw Meridian, Sunflower County, Hydrologic Unit 08030207, 30 ft downstream of Columbia Gulf gas line, approximately 5.5 mi south of Moorhead, 0.7 mi west of Three Mile Lake, and 5 mi east of Inverness.

DRAINAGE AREA.--2.3 mi<sup>2</sup> (1,470 acres).

PERIOD OF RECORD.--Water years 1996 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 105.80 ft above sea level. Automatic pumping water-quality and sediment samplers since April 1996.

## GRAB SAMPLE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE         | TIME                                                                         | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L<br>(00300)                 | PH                                                                                     | SPE-                                                            | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                | NITRO-                                                                  | NITRO-                                                                   | NITRO-                                                                     | NITRO-                                                                     | PHOS-                                                                          | PHOS-<br>PHURUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                        | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)              |
|--------------|------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------|
|              |                                                                              |                                                               | WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400)                         | CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)            |                                                                | GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608)          | GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625)     | GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631)             | GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613)             | PHOS-<br>PHURUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)       |                                                                              |                                                                       |
| APR<br>29... | 1500                                                                         | 6.4                                                           | 6.5                                                                                    | 107                                                             | 18.5                                                           | .650                                                                    | 2.9                                                                      | 2.10                                                                       | .080                                                                       | .070                                                                           | .630                                                                         | 16                                                                    |
| MAY<br>11... | 1010                                                                         | 5.9                                                           | 6.5                                                                                    | 99                                                              | 21.5                                                           | .600                                                                    | 3.4                                                                      | 2.00                                                                       | .070                                                                       | .060                                                                           | .720                                                                         | 15                                                                    |
| DATE         | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50309) | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>WATER,<br>FILT,<br>REC<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)   | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041) | CYANA-<br>ZINE-<br>AMIDE<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(61709) | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50379)  | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(50380) | FLURO-<br>MET-<br>URON<br>WATER,<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
|              |                                                                              |                                                               |                                                                                        |                                                                 |                                                                |                                                                         |                                                                          |                                                                            |                                                                            |                                                                                |                                                                              |                                                                       |
| APR<br>29... | <.050                                                                        | <.050                                                         | .090                                                                                   | .880                                                            | <.050                                                          | <.050                                                                   | .21                                                                      | .13                                                                        | <.050                                                                      | .750                                                                           | .190                                                                         | 1.62                                                                  |
| MAY<br>11... | <.050                                                                        | <.050                                                         | 1.370                                                                                  | .420                                                            | 252                                                            | .540                                                                    | <.050                                                                    | .33                                                                        | .060                                                                       | .170                                                                           | .570                                                                         | 520                                                                   |
| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)                    | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)      | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)                            | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)             | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)              | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)              | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)       | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154)                         |                                                                       |
|              |                                                                              |                                                               |                                                                                        |                                                                 |                                                                |                                                                         |                                                                          |                                                                            |                                                                            |                                                                                |                                                                              |                                                                       |
| APR<br>29... | 16.5                                                                         | 1.14                                                          | .050                                                                                   | .270                                                            | .17                                                            | <.050                                                                   | <.05                                                                     | <.050                                                                      | <.05                                                                       | <.050                                                                          | 570                                                                          |                                                                       |
| MAY<br>11... | 12.4                                                                         | .080                                                          | .400                                                                                   | 1.95                                                            | .27                                                            | <.050                                                                   | <.05                                                                     | <.050                                                                      | --                                                                         | <.050                                                                          | 762                                                                          |                                                                       |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

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## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862211 BROWNS BAYOU NEAR INVERNESS, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

| DATE      | TIME                                       | ENDING TIME                                           | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)  | PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)   | PHOS-PHORUS, DIS-SOLVED TOTAL (MG/L AS P) (00665)   | CARBON, ORGANIC TOTAL (MG/L AS C) (00680)              | 3,4-DI-CHLORO-ANILINE WATER FLTRD REC (UG/L) (50309)   | ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)    |
|-----------|--------------------------------------------|-------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|----------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|------------------------------------------------|
| MAR 13-14 | 2054                                       | 2050                                                  | --                                                | --                                                      | --                                                | --                                                 | --                                                   | --                                                  | --                                                     | --                                                     | --                                             |
| MAR 18-19 | 1923                                       | 0608                                                  | --                                                | --                                                      | --                                                | --                                                 | --                                                   | --                                                  | --                                                     | --                                                     | --                                             |
| APR 05-05 | 0847                                       | 2344                                                  | .850                                              | 6.0                                                     | 2.70                                              | .032                                               | .300                                                 | 1.00                                                | --                                                     | <.050                                                  | <.0500                                         |
| JUN 09-10 | 1627                                       | 0155                                                  | .940                                              | 3.8                                                     | 3.50                                              | .085                                               | .120                                                 | .560                                                | 4.7                                                    | 1.23                                                   | <.0500                                         |
| JUN 10-10 | 1356                                       | 2118                                                  | .620                                              | 1.9                                                     | 3.60                                              | .100                                               | .150                                                 | .350                                                | 4.4                                                    | .190                                                   | <.0500                                         |
| JUL 30-31 | 1330                                       | 0758                                                  | .092                                              | .75                                                     | .100                                              | .027                                               | .070                                                 | .110                                                | 5.0                                                    | <.050                                                  | <.0500                                         |
| DATE      | ALA-CHLOR, WATER, DISS, REC (UG/L) (46342) | ANILINE 3-(TRI-FLURO-METHYL) FILT, REC (UG/L) (50307) | ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)        | CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)             | CYANA-ZINE-AMIDE WATER, FLTRD REC (UG/L) (61709)  | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040) | DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038) | DEISO-PROPYL METRYN WATER, FLTRD REC (UG/L) (50378) | DEMETH-YLFLURO-METURON WATER, FLTRD REC (UG/L) (50379) | DEMETH-YLNORF-LURAZON WATER, FLTRD REC (UG/L) (50380)  | FLURO-MET-URON WATER, FLTRD REC (UG/L) (61710) |
| MAR 13-14 | --                                         | --                                                    | --                                                | --                                                      | --                                                | --                                                 | --                                                   | --                                                  | --                                                     | --                                                     | --                                             |
| MAR 18-19 | --                                         | --                                                    | --                                                | --                                                      | --                                                | --                                                 | --                                                   | --                                                  | --                                                     | --                                                     | --                                             |
| APR 05-05 | <.050                                      | <.050                                                 | 16.2                                              | .0900                                                   | <.050                                             | .400                                               | .520                                                 | <.050                                               | .420                                                   | .100                                                   | .350                                           |
| JUN 09-10 | <.050                                      | .510                                                  | 33.0                                              | .730                                                    | .170                                              | 2.74                                               | 1.18                                                 | <.050                                               | .380                                                   | .210                                                   | 7.88                                           |
| JUN 10-10 | <.050                                      | .200                                                  | <20.0                                             | --                                                      | .230                                              | 2.04                                               | .860                                                 | <.050                                               | 2.11                                                   | .120                                                   | 14.0                                           |
| JUL 30-31 | <.050                                      | <.050                                                 | .570                                              | 1.43                                                    | <.050                                             | .130                                               | .0600                                                | <.050                                               | <.050                                                  | .130                                                   | .280                                           |
| DATE      | METO-LACHLOR WATER DISSOLV (UG/L) (39415)  | METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)       | MOLI-NATE WATER FLTRD REC (UG/L) (50375)          | NORFLU-RAZONE WATER FLTRD REC (UG/L) (50332)            | PRO-METRYN, WATER, DISS, REC (UG/L) (04036)       | PROP-ANIL WATER, FLTRD REC (UG/L) (50377)          | PROP-AZINE WATER, DISS, REC (UG/L) (38535)           | SI-MAZINE, WATER, DISS, REC (UG/L) (04035)          | TRI-FLUR-ALIN WATER, DISS, REC (UG/L) (38574)          | UREA, 3-TRI-FLURO-METHYL-PHENYL UNFLTRD (UG/L) (50473) | SEDI-MENT, SUS-PENDED (MG/L) (80154)           |
| MAR 13-14 | --                                         | --                                                    | --                                                | --                                                      | --                                                | --                                                 | --                                                   | --                                                  | --                                                     | --                                                     | 514                                            |
| MAR 18-19 | --                                         | --                                                    | --                                                | --                                                      | --                                                | --                                                 | --                                                   | --                                                  | --                                                     | --                                                     | 704                                            |
| APR 05-05 | 4.48                                       | <.050                                                 | <.050                                             | .080                                                    | .0800                                             | <.050                                              | .110                                                 | <.0500                                              | <.05                                                   | <.050                                                  | 1110                                           |
| JUN 09-10 | .790                                       | .240                                                  | .130                                              | .350                                                    | .0900                                             | <.050                                              | .240                                                 | <.0500                                              | <.05                                                   | <.050                                                  | 526                                            |
| JUN 10-10 | .220                                       | .240                                                  | .230                                              | .240                                                    | <.0500                                            | <.050                                              | .320                                                 | <.0500                                              | <.05                                                   | <.050                                                  | 252                                            |
| JUL 30-31 | <.050                                      | <.050                                                 | <.050                                             | <.050                                                   | <.0500                                            | <.050                                              | <.050                                                | <.0500                                              | <.05                                                   | <.050                                                  | 72                                             |

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued  
0728862211 BROWNS BAYOU NEAR INVERNESS, MS--Continued  
COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

| DATE              | TIME                                                           | ENDING TIME                                                                   | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613)  | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)    | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                      | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309)           | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |
|-------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| FEB 10-11         | 2258                                                           | 2148                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                          | --                                                                         | --                                                                           | --                                                                                    | --                                                                   |
| FEB 15-18         | 2347                                                           | 1131                                                                          | .044                                                                     | 2.1                                                                            | .290                                                                     | <.010                                                                     | .040                                                                        | .450                                                                       | 10                                                                           | <.050                                                                                 | <.0500                                                               |
| FEB 22-23         | 1630                                                           | 0340                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                          | --                                                                         | --                                                                           | --                                                                                    | --                                                                   |
| FEB 26-27         | 1322                                                           | 0054                                                                          | .120                                                                     | 2.3                                                                            | .190                                                                     | <.010                                                                     | .040                                                                        | .720                                                                       | 11                                                                           | <.050                                                                                 | <.0500                                                               |
| MAR 07-10         | 1213                                                           | 0950                                                                          | .078                                                                     | 2.4                                                                            | .350                                                                     | <.010                                                                     | .070                                                                        | .390                                                                       | 8.6                                                                          | <.050                                                                                 | <.0500                                                               |
| MAR 10-10         | 1143                                                           | 1945                                                                          | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                          | --                                                                         | --                                                                           | --                                                                                    | --                                                                   |
| MAR 16-17         | 2201                                                           | 1458                                                                          | .037                                                                     | 2.4                                                                            | .670                                                                     | .014                                                                      | .090                                                                        | .570                                                                       | 6.1                                                                          | <.050                                                                                 | <.0500                                                               |
| APR 28-30         | 0303                                                           | 0828                                                                          | 2.10                                                                     | 4.1                                                                            | 8.00                                                                     | .190                                                                      | .110                                                                        | .390                                                                       | 13                                                                           | <.050                                                                                 | <.0500                                                               |
| MAY 29-30         | 0344                                                           | 0835                                                                          | 1.40                                                                     | 3.6                                                                            | 7.00                                                                     | .120                                                                      | .210                                                                        | .640                                                                       | 9.6                                                                          | <.050                                                                                 | <.0500                                                               |
| MAY 30-<br>JUN 02 | 1606                                                           | 0134                                                                          | .690                                                                     | 1.4                                                                            | 2.40                                                                     | .500                                                                      | .090                                                                        | .230                                                                       | 9.7                                                                          | <.050                                                                                 | <.0500                                                               |
| JUL 13-14         | 0602                                                           | 1009                                                                          | .720                                                                     | 1.7                                                                            | 1.10                                                                     | .170                                                                      | .160                                                                        | .280                                                                       | 13                                                                           | <.050                                                                                 | <.0500                                                               |
| DATE              | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL)<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(39632)           | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(04041)                | CYANA-<br>ZINE,<br>WATER,<br>FLTRD<br>REC,<br>(UG/L)<br>(61709)          | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL<br>METRYN<br>WATER,<br>FLTRD<br>REC,<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLUO-<br>METURON<br>WATER<br>FLTRD<br>REC,<br>(UG/L)<br>(50379) | DEMETH-<br>YLFLUO-<br>LURAZON<br>WATER<br>FLTRD<br>REC,<br>(UG/L)<br>(50380)          | FLUO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC,<br>(UG/L)<br>(61710) |
| FEB 10-11         | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                          | --                                                                         | --                                                                           | --                                                                                    | --                                                                   |
| FEB 15-18         | <.050                                                          | <.050                                                                         | .050                                                                     | .0600                                                                          | .090                                                                     | <.0500                                                                    | .130                                                                        | <.050                                                                      | .320                                                                         | <.050                                                                                 | .230                                                                 |
| FEB 22-23         | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                          | --                                                                         | --                                                                           | --                                                                                    | --                                                                   |
| FEB 26-27         | <.050                                                          | <.050                                                                         | .050                                                                     | <.0500                                                                         | <.050                                                                    | <.0500                                                                    | .200                                                                        | <.050                                                                      | .180                                                                         | <.050                                                                                 | .170                                                                 |
| MAR 07-10         | <.050                                                          | <.050                                                                         | .060                                                                     | .0700                                                                          | <.050                                                                    | <.0500                                                                    | .170                                                                        | <.050                                                                      | .490                                                                         | <.050                                                                                 | .220                                                                 |
| MAR 10-10         | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                          | --                                                                         | --                                                                           | --                                                                                    | --                                                                   |
| MAR 16-17         | <.050                                                          | <.050                                                                         | .060                                                                     | .0700                                                                          | <.050                                                                    | <.0500                                                                    | .120                                                                        | <.050                                                                      | .660                                                                         | <.050                                                                                 | .230                                                                 |
| APR 28-30         | <.050                                                          | <.050                                                                         | 129                                                                      | .0900                                                                          | <.050                                                                    | 11.9                                                                      | 4.49                                                                        | <.050                                                                      | <.050                                                                        | .450                                                                                  | .740                                                                 |
| MAY 29-30         | <.050                                                          | <.050                                                                         | 42.3                                                                     | <.0500                                                                         | <.050                                                                    | 3.55                                                                      | 1.51                                                                        | <.050                                                                      | .370                                                                         | .210                                                                                  | .110                                                                 |
| MAY 30-<br>JUN 02 | <.050                                                          | <.050                                                                         | 90.5                                                                     | <.0500                                                                         | <.050                                                                    | 2.99                                                                      | 1.32                                                                        | <.050                                                                      | .770                                                                         | .470                                                                                  | .270                                                                 |
| JUL 13-14         | <.050                                                          | <.050                                                                         | .990                                                                     | .230                                                                           | <.050                                                                    | .380                                                                      | .410                                                                        | <.050                                                                      | <.050                                                                        | <.050                                                                                 | .080                                                                 |
| DATE              | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)                      | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)              | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)                | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036)           | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)               | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                 | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)              | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)         | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>REC<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154)                 |
| FEB 10-11         | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                          | --                                                                         | --                                                                           | --                                                                                    | 684                                                                  |
| FEB 15-18         | <.050                                                          | <.050                                                                         | <.050                                                                    | .150                                                                           | <.0500                                                                   | <.050                                                                     | <.050                                                                       | .190                                                                       | <.05                                                                         | <.050                                                                                 | 404                                                                  |
| FEB 22-23         | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                          | --                                                                         | --                                                                           | --                                                                                    | 382                                                                  |
| FEB 26-27         | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                     | <.050                                                                       | .200                                                                       | <.05                                                                         | <.050                                                                                 | 723                                                                  |
| MAR 07-10         | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                     | <.050                                                                       | .220                                                                       | <.05                                                                         | <.050                                                                                 | 542                                                                  |
| MAR 10-10         | --                                                             | --                                                                            | --                                                                       | --                                                                             | --                                                                       | --                                                                        | --                                                                          | --                                                                         | --                                                                           | --                                                                                    | 387                                                                  |
| MAR 16-17         | <.050                                                          | <.050                                                                         | <.050                                                                    | <.050                                                                          | <.0500                                                                   | <.050                                                                     | <.050                                                                       | .120                                                                       | <.05                                                                         | <.050                                                                                 | 622                                                                  |
| APR 28-30         | 40.5                                                           | 6.24                                                                          | <.050                                                                    | .340                                                                           | .0600                                                                    | <.050                                                                     | 1.30                                                                        | <.0500                                                                     | <.05                                                                         | <.050                                                                                 | 526                                                                  |
| MAY 29-30         | .870                                                           | 1.90                                                                          | <.050                                                                    | .070                                                                           | <.0500                                                                   | <.050                                                                     | .480                                                                        | .230                                                                       | <.05                                                                         | <.050                                                                                 | 531                                                                  |
| MAY 30-<br>JUN 02 | 3.59                                                           | .310                                                                          | .060                                                                     | .170                                                                           | <.0500                                                                   | <.050                                                                     | .250                                                                        | .160                                                                       | <.05                                                                         | <.050                                                                                 | 181                                                                  |
| JUL 13-14         | .110                                                           | .130                                                                          | .230                                                                     | <.050                                                                          | <.0500                                                                   | <.050                                                                     | <.050                                                                       | <.0500                                                                     | <.05                                                                         | <.050                                                                                 | 137                                                                  |

GRAB SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

| DATE  | TIME | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) |
|-------|------|-------------------------------------------------------|
| JUL   |      |                                                       |
| 13... | 1115 | 78                                                    |
| 13... | 1120 | 101                                                   |
| 13... | 1135 | 155                                                   |

[illegible]



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

## MISSISSIPPI DELTA MANAGEMENT SYSTEMS EVALUATION AREA STUDY--Continued

0728862211 BROWNS BAYOU NEAR INVERNESS, MS--Continued

## COMPOSITE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999--Continued

| DATE         | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630) | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375) | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332) | PRO-<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377) | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535) | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | TRI-<br>FLUR-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574) | UREA,<br>3-TRI-<br>FLUORO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>REC<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|--------------|-----------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------|
| NOV<br>14-16 | .250                                                      | .070                                                               | <.050                                                       | .300                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 109                                                  |
| DEC<br>11-12 | .110                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 109                                                  |
| DEC<br>22-22 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 271                                                  |
| JAN<br>08-11 | .050                                                      | <.050                                                              | <.050                                                       | <.050                                                           | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 614                                                  |
| JAN<br>29-30 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 581                                                  |
| JUN<br>01-02 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 319                                                  |
| JUN<br>02-03 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 199                                                  |
| JUN<br>12-14 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 122                                                  |
| JUN<br>15-26 | .180                                                      | <.050                                                              | <.050                                                       | .070                                                            | <.0500                                                         | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 91                                                   |
| JUN<br>26-27 | .210                                                      | .070                                                               | .910                                                        | .170                                                            | .200                                                           | <.050                                                       | <.050                                                       | <.0500                                                        | <.05                                                                 | <.050                                                                                  | 133                                                  |
| JUN<br>29-30 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 185                                                  |
| JUL<br>21-21 | --                                                        | --                                                                 | --                                                          | --                                                              | --                                                             | --                                                          | --                                                          | --                                                            | --                                                                   | --                                                                                     | 168                                                  |

## DISCRETE SAMPLE DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

| DATE         | TIME | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) |
|--------------|------|------------------------------------------------------|
| JUL<br>13... | 1140 | 128                                                  |

|           |                                                                |                                                                                | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                     | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                     | 3,4-DI-<br>CHLORO-<br>ANILINE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50309)    | ACETO-<br>CHLOR,<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(49260)       |
|-----------|----------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|
| DATE      | TIME                                                           | ENDING<br>TIME                                                                 |                                                                          |                                                                                |                                                                          |                                                                          |                                                                            |                                                                           |                                                                              |                                                                                |                                                                      |
| DEC 12-14 | 1504                                                           | 0913                                                                           | .030                                                                     | 1.3                                                                            | 1.40                                                                     | .020                                                                     | .060                                                                       | .220                                                                      | 9.4                                                                          | <.050                                                                          | <.050                                                                |
| MAR 10-11 | 2013                                                           | 1501                                                                           | .400                                                                     | 4.2                                                                            | 2.60                                                                     | .050                                                                     | .090                                                                       | .730                                                                      | 8.2                                                                          | <.050                                                                          | <.050                                                                |
| MAR 16-17 | 1018                                                           | 1216                                                                           | .630                                                                     | 2.7                                                                            | 4.10                                                                     | .100                                                                     | .080                                                                       | .510                                                                      | 7.2                                                                          | <.050                                                                          | <.050                                                                |
| MAR 19-19 | 0045                                                           | 1433                                                                           | .400                                                                     | 2.7                                                                            | 2.00                                                                     | .060                                                                     | .100                                                                       | .630                                                                      | 5.8                                                                          | <.050                                                                          | <.050                                                                |
| APR 01-02 | 1848                                                           | 0537                                                                           | .180                                                                     | 3.1                                                                            | 1.10                                                                     | .020                                                                     | .110                                                                       | .810                                                                      | 11                                                                           | <.050                                                                          | <.050                                                                |
| APR 03-05 | 1049                                                           | 1334                                                                           | .110                                                                     | 1.3                                                                            | .630                                                                     | .010                                                                     | .060                                                                       | .350                                                                      | 3.8                                                                          | <.050                                                                          | <.050                                                                |
| APR 06-08 | 1347                                                           | 1607                                                                           | .190                                                                     | 2.1                                                                            | .290                                                                     | .020                                                                     | .030                                                                       | .430                                                                      | 6.2                                                                          | <.050                                                                          | <.050                                                                |
| APR 12-13 | 2221                                                           | 0225                                                                           | .020                                                                     | 2.8                                                                            | 2.60                                                                     | <.010                                                                    | .060                                                                       | .540                                                                      | 11                                                                           | <.050                                                                          | <.050                                                                |
| JUN 17-17 | 1527                                                           | 1914                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | --                                                                   |
| JUN 18-18 | 2039                                                           | 2054                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | --                                                                   |
| JUN 19-19 | 1820                                                           | 1838                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | --                                                                   |
| JUN 28-28 | 1044                                                           | 1701                                                                           | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | --                                                                   |
| DATE      | ALA-<br>CHLOR,<br>WATER,<br>DISS,<br>REC,<br>(UG/L)<br>(46342) | ANILINE<br>3-(TRI-<br>FLURO-<br>METHYL),<br>FILT,<br>REC,<br>(UG/L)<br>(50307) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)            | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | CYANA-<br>ZINE-<br>AMIDE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61709)   | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | DEISO-<br>PROPYL<br>ATRAZIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04038) | DEISO-<br>PROPYL-<br>METRYN<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50378) | DEMETH-<br>YLFLURO-<br>METURON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50379) | DEMETH-<br>YLNORF-<br>LURAZON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50380)    | FLURO-<br>MET-<br>URON<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(61710) |
| DEC 12-14 | <.050                                                          | <.050                                                                          | <.050                                                                    | .210                                                                           | .310                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                     | .210                                                                         | <.050                                                                          | .140                                                                 |
| MAR 10-11 | <.050                                                          | <.050                                                                          | 11.7                                                                     | <.050                                                                          | .080                                                                     | .090                                                                     | .16                                                                        | <.050                                                                     | .230                                                                         | <.050                                                                          | .200                                                                 |
| MAR 16-17 | <.050                                                          | <.050                                                                          | 6.08                                                                     | <.050                                                                          | .110                                                                     | .21                                                                      | .34                                                                        | <.050                                                                     | .480                                                                         | .100                                                                           | .230                                                                 |
| MAR 19-19 | <.050                                                          | <.050                                                                          | 2.21                                                                     | <.050                                                                          | .060                                                                     | .13                                                                      | .17                                                                        | <.050                                                                     | <.050                                                                        | <.050                                                                          | .140                                                                 |
| APR 01-02 | <.050                                                          | <.050                                                                          | .540                                                                     | <.050                                                                          | .180                                                                     | .12                                                                      | .18                                                                        | <.050                                                                     | .160                                                                         | <.050                                                                          | .100                                                                 |
| APR 03-05 | <.050                                                          | <.050                                                                          | .050                                                                     | <.050                                                                          | .100                                                                     | <.050                                                                    | .05                                                                        | <.050                                                                     | .190                                                                         | <.050                                                                          | .110                                                                 |
| APR 06-08 | <.050                                                          | <.050                                                                          | .090                                                                     | <.050                                                                          | <.050                                                                    | <.050                                                                    | <.05                                                                       | <.050                                                                     | .170                                                                         | <.050                                                                          | .140                                                                 |
| APR 12-13 | <.050                                                          | <.050                                                                          | .310                                                                     | <.050                                                                          | <.050                                                                    | .11                                                                      | .44                                                                        | <.050                                                                     | .150                                                                         | <.050                                                                          | .190                                                                 |
| JUN 17-17 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | --                                                                   |
| JUN 18-18 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | --                                                                   |
| JUN 19-19 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | --                                                                   |
| JUN 28-28 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | --                                                                   |
| DATE      | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415)      | METRI-<br>BUZIN<br>SENSOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)             | MOLI-<br>NATE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50375)              | NORFLU-<br>RAZONE<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50332)                | PRO-<br>RAZONE<br>METRYN,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04036) | PROP-<br>ANIL<br>WATER<br>FLTRD<br>REC<br>(UG/L)<br>(50377)              | PROP-<br>AZINE<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(38535)                | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)             | TRI-<br>FLURO-<br>ALIN<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(38574)        | UREA,<br>3-TRI-<br>FLURO-<br>METHYL-<br>PHENYL<br>UNFLTRD<br>(UG/L)<br>(50473) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154)                |
| DEC 12-14 | <.050                                                          | <.050                                                                          | <.050                                                                    | <.050                                                                          | .05                                                                      | <.050                                                                    | <.05                                                                       | <.050                                                                     | <.05                                                                         | <.050                                                                          | 212                                                                  |
| MAR 10-11 | .330                                                           | <.050                                                                          | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | .09                                                                        | <.050                                                                     | <.05                                                                         | <.050                                                                          | 884                                                                  |
| MAR 16-17 | 2.13                                                           | .100                                                                           | <.050                                                                    | .060                                                                           | <.05                                                                     | <.050                                                                    | <.05                                                                       | 1.57                                                                      | <.05                                                                         | <.050                                                                          | 481                                                                  |
| MAR 19-19 | .350                                                           | <.050                                                                          | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | 1.25                                                                      | <.05                                                                         | <.050                                                                          | 701                                                                  |
| APR 01-02 | .420                                                           | <.050                                                                          | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | 2.03                                                                      | <.05                                                                         | <.050                                                                          | 881                                                                  |
| APR 03-05 | .230                                                           | <.050                                                                          | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | <.050                                                                     | <.05                                                                         | <.050                                                                          | 318                                                                  |
| APR 06-08 | .140                                                           | <.050                                                                          | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | .050                                                                      | <.05                                                                         | <.050                                                                          | 329                                                                  |
| APR 12-13 | .170                                                           | <.050                                                                          | <.050                                                                    | <.050                                                                          | <.05                                                                     | <.050                                                                    | <.05                                                                       | .710                                                                      | <.05                                                                         | <.050                                                                          | 383                                                                  |
| JUN 17-17 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | 151                                                                  |
| JUN 18-18 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | 253                                                                  |
| JUN 19-19 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | 143                                                                  |
| JUN 28-28 | --                                                             | --                                                                             | --                                                                       | --                                                                             | --                                                                       | --                                                                       | --                                                                         | --                                                                        | --                                                                           | --                                                                             | 87                                                                   |

## STATION RECORDS, GROUND WATER

## GROUND-WATER LEVELS

## GRENADA COUNTY

334213089442701. Local number H024.

LOCATION.--Lat 33°42'21", long 89°44'27", in NW1/4 NE1/4 sec. 11, T.21 N., R.5 E., Choctaw Meridian, Grenada County, Hydrologic Unit 08030205, at old Camp McCain site, 1 mi northeast of Elliott.

Owner: Charles Blakely (formerly U.S. Army).

AQUIFER.--Meridian Sand Member of Tallahatta Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter of casing 18-12 in, depth 82 ft.

INSTRUMENTATION.--Handar 555 Data Collection Platform installed February 1998. Water level transmitted every 4 hours.

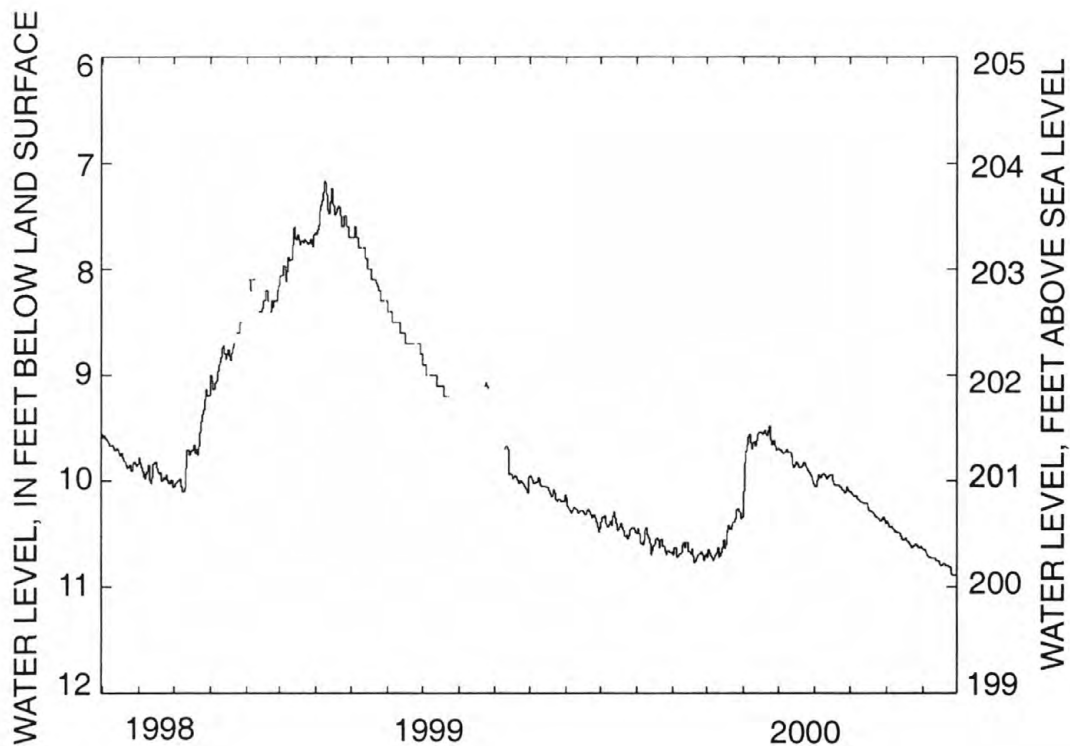
DATUM.--Land-surface datum is 210.5 ft above sea level. Measuring point: Top of 12-in casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--Miscellaneous water-level measurements 1943, February 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.95 ft below land-surface datum Mar. 19, 1998, lowest measured 10.11 ft, Sept. 30, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY | OCT              | NOV   | DEC   | JAN                 | FEB   | MAR   | APR  | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|------------------|-------|-------|---------------------|-------|-------|------|-------|-------|-------|-------|-------|
| 5   | 10.02            | 10.28 | 10.33 | 10.59               | 10.72 | 10.71 | 9.66 | 9.73  | 9.94  | 10.14 | 10.44 | 10.69 |
| 10  | 9.98             | 10.26 | 10.38 | 10.44               | 10.60 | 10.68 | 9.64 | 9.73  | 9.94  | 10.19 | 10.48 | 10.73 |
| 15  | 10.05            | 10.28 | 10.40 | 10.66               | 10.67 | 10.63 | 9.54 | 9.87  | 9.94  | 10.21 | 10.55 | 10.76 |
| 20  | 10.15            | 10.28 | 10.44 | 10.56               | 10.77 | 10.42 | 9.52 | 9.87  | 10.04 | 10.29 | 10.57 | 10.78 |
| 25  | 10.19            | 10.33 | 10.55 | 10.62               | 10.69 | 10.39 | 9.61 | 9.86  | 10.08 | 10.35 | 10.62 | 10.81 |
| EOM | 10.19            | ---   | 10.46 | 10.68               | ---   | 10.36 | ---  | 10.00 | ---   | 10.37 | 10.62 | ---   |
| WTR | HIGH 9.48 APR 24 |       |       | LOW 10.89 SEP 27-30 |       |       |      |       |       |       |       |       |



## HINDS COUNTY

321957090105601. Local number, H155.

LOCATION.--Lat 32°19'52", long 90°10'59", in NW1/4 SE1/4 sec.27, T.6 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, on North West Street near Taylor Street, 2.0 mi north of center of Jackson.

Owner: Department of Environmental Quality, Office of Geology.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well (test hole), diameter 4 in, depth 200 ft.

DATUM.--Land-surface datum is 330 ft above sea level. Measuring point: Top of casing, 40 ft above land-surface datum.

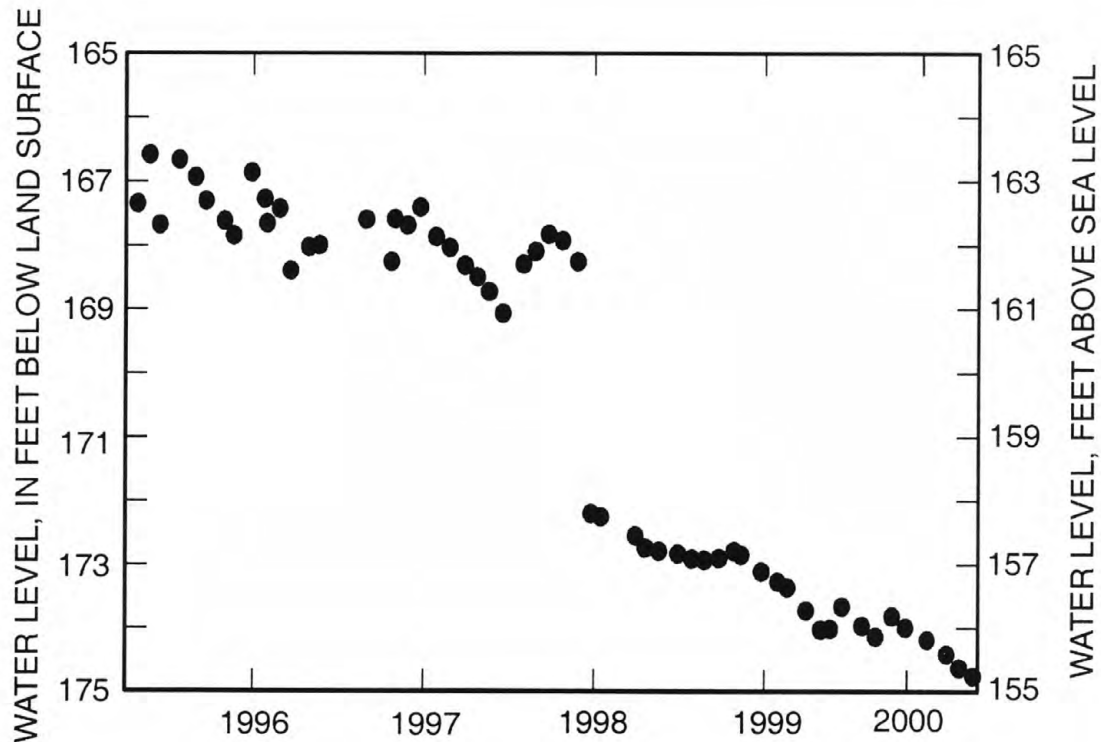
REMARKS.--Slug tested June 1998, well response sluggish, cleaned well with air, water level changed about 4 feet.

PERIOD OF RECORD.--Periodic water-level measurements July 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 143.13 ft below land-surface datum, Jul. 11, 1972, lowest measured, 173.72 ft below land-surface datum, Sept. 28, 1999.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 29 | 174.02      | DEC 13 | 173.66      | FEB 23 | 174.13      | APR 27 | 173.99      | JUN 13 | 174.18      | AUG 21 | 174.63      |
| NOV 18 | 174.01      | JAN 25 | 173.96      | MAR 29 | 173.81      | -----  | -----       | JUL 25 | 174.41      | SEP 20 | 174.76      |



## GROUND-WATER LEVELS

## WAYNE COUNTY

31415088392301. Local number, N151.

LOCATION.--Lat 31°41'07", long 88°39'27", in NE1/4 SE1/4 sec.2, T.8 N., R.7 W., St. Stephens Meridian, Wayne County, Hydrologic Unit 03170002, 1 mi northwest of center of Waynesboro at Turner Street and Gulf Mobile and Ohio Railroad.

Owner: Town of Waynesboro.

AQUIFER.--Waynesboro Sand Lentic of Byram Formation of Oligocene age.

WELL CHARACTERISTICS.--Drilled unused artesian aquifer, diameter 18-8 in, depth 82 ft.

INSTRUMENTATION.--Handar 555 Data Collection Platform. Water level transmitted very 4 hours.

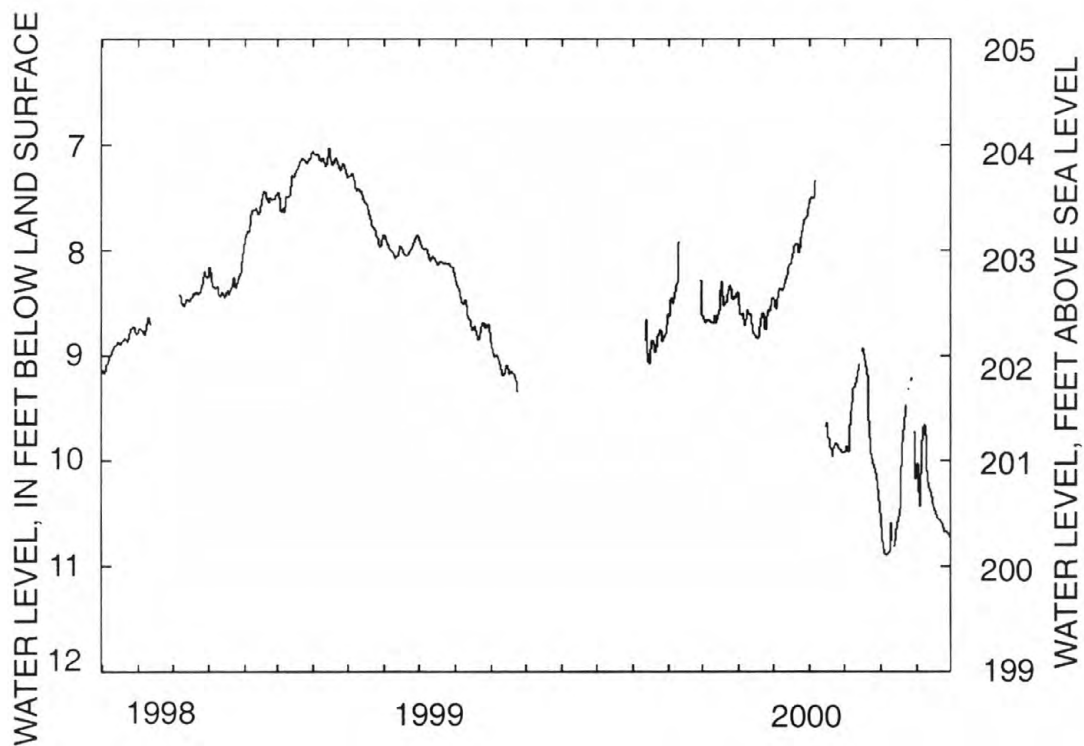
DATUM.--Land-surface datum is 180 ft above sea level. Measuring point: 1-in breather pipe inside shelter, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--Miscellaneous measurements 1973, February 1975 to September 1993, February 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.52 ft below land-surface datum, Apr. 5, 1990, lowest measured, 35.73 ft below land-surface datum, Jan. 22, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY | OCT               | NOV | DEC | JAN              | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------------------|-----|-----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | ---               | --- | --- | ---              | 25.00 | 25.32 | 25.20 | 24.90 | 23.01 | 27.83 | 29.77 | 28.25 |
| 10  | ---               | --- | --- | ---              | 23.85 | 25.37 | 25.20 | 24.72 | ---   | 26.59 | 29.18 | 28.20 |
| 15  | ---               | --- | --- | 26.13            | ---   | 25.22 | 25.59 | 24.27 | 27.34 | ---   | 29.29 | 28.82 |
| 20  | ---               | --- | --- | 25.79            | ---   | 25.05 | 25.44 | 23.89 | 27.79 | 26.22 | 27.64 | 29.11 |
| 25  | ---               | --- | --- | 25.51            | ---   | 24.68 | 25.50 | 23.76 | 27.68 | 27.97 | 26.63 | 29.35 |
| EOM | ---               | --- | --- | 25.41            | ---   | 24.82 | ---   | 23.22 | ---   | 28.77 | 28.34 | ---   |
| WTR | HIGH 23.22 MAY 31 |     |     | LOW 29.45 SEP 30 |       |       |       |       |       |       |       |       |



## GROUND-WATER LEVELS

353

## HINDS COUNTY

322112090195601. Local number, G059.

LOCATION.--Lat 32°21'12", long 90°19'56", in NW1/4 NW1/4 sec.19, T.6 N., R.1 W., Choctaw Meridian, Hinds County.

Hydrologic Unit 08060202, at Clinton Industrial Park, off west Northside Drive.

Owner: City of Clinton.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 893 ft.

DATUM.--Land-surface datum is 325 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 2.10 ft above land-surface datum.

REMARKS.--Water level affected by length of time pump off before measurement made.

PERIOD OF RECORD.--April 1960, September 1976, October 1980, July 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 192.0 ft below land-surface datum, Apr. 15, 1960, lowest measured, 249.74 ft below land-surface datum, Oct. 5, 1999.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|
| OCT 5 | 249.74         | APR 27 | 244.40         |

322128090174901. Local number, G101.

LOCATION.--Lat 32°21'28", long 90°17'49", in SE1/4 SE1/4 sec.16, T.6 N., R.1 W., Choctaw Meridian, Hinds County.

Hydrologic Unit 08060202, 2.5 mi northeast of center of Clinton off Northside Drive.

Owner: City of Clinton.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16 in, depth 842 ft.

DATUM.--Land-surface datum is 297 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 2.15 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--July 1984, May 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 225 ft below land surface datum, July 18, 1984, lowest measured, 285.92 ft below land-surface datum, Feb. 25, 1994.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|
| OCT 5 | 271.21         | APR 27 | 267.84         |

322003090092501. Local number, H196.

LOCATION.--Lat 32°20'11", long 90°09'33", in SE1/4 NE1/4 sec.25, T.6 N., R.1 E., Choctaw Meridian, Hinds County.

Hydrologic Unit 03180002, near intersection of Interstate 55 and Lakeland Drive at Mississippi Agriculture and Forestry Museum.

Owner: Mississippi Department of Agriculture.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 275 ft.

DATUM.--Land-surface datum is 290 ft above sea level (from topographic map).

Measuring point: Top of 4-inch well seal, 0.8 ft above land-surface datum.

PERIOD OF RECORD.--April 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 135.14 ft below land-surface datum, Apr. 26, 1994, lowest measured, 145.95 ft below land-surface datum, Aug. 21, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| OCT 29 | 143.80         | DEC 13 | 143.81         | FEB 23 | 144.18         | APR 27 | 143.76         | JUN 13 | 144.36         | AUG 21 | 145.95         |
| NOV 17 | 143.97         | JAN 25 | 144.10         | MAR 29 | 143.90         | ---    | ---            | JUL 25 | 145.70         | SEP 20 | 145.26         |

321445090160001. Local number, M094.

LOCATION.--Lat 32°14'52", long 90°15'59", in SW1/4 NE1/4 sec. 26, T.5 N., R.1 W., Choctaw Meridian, Hinds County.

Hydrologic Unit 08060202, on Forest Hill Road in south Jackson.

Owner: City of Jackson.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in, depth 1,079 ft.

DATUM.--Land-surface datum is 360 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 4.10 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--August 1968, April 1973, May 1987, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 225 ft below land-surface datum, Aug. 1968, lowest measured, 317.95 ft below land-surface datum Sept. 21, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|------|----------------|--------|----------------|--------|----------------|
| OCT 29 | 310.02         | DEC 13 | 306.89         | FEB 23 | 305.16         | ---  | ---            | JUN 13 | 306.97         | AUG 21 | 316.33         |
| NOV 17 | 307.36         | JAN 25 | 308.80         | MAR 29 | 305.03         | ---  | ---            | JUL 25 | 311.06         | SEP 21 | 317.95         |

321423090180201. Local number, M112.

LOCATION.--Lat 32°14'25", long 90°18'01", in SW1/4 SE1/4 sec. 28, T.5 N., R.1 W., Choctaw Meridian, Hinds County.

Hydrologic Unit 08060202, on Siwell Road next to fire station in south Jackson.

Owner: City of Jackson.

AQUIFER.--Sparta sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public supply artesian well, diameter 16 in, depth 1,398 ft.

DATUM.--Land-surface datum is 330 ft above sea level (from topographic map).

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--October 1980, May 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 250 ft below land-surface datum, Oct. 20, 1980, lowest measured, 301.75 ft below land-surface datum, Sept. 21, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| OCT 29 | 291.30         | DEC 13 | 288.05         | FEB 23 | 287.40         | APR 27 | 289.15         | JUN 13 | 288.14         | ---    | ---            |
| NOV 17 | 287.38         | JAN 25 | 283.80         | MAR 29 | 285.59         | ---    | ---            | JUL 25 | 290.16         | SEP 21 | 301.75         |

## GROUND-WATER LEVELS

## HINDS COUNTY--Continued

321752090102601. Local number, N092.

LOCATION.--Lat 32°17'59", long 90°10'32", in SW1/4 SW1/4 sec.2, T.5 N., R.1 E., Choctaw Meridian, Hinds County.

Hydrologic Unit 03180002, southeast corner of Mississippi State Fairgrounds off Jefferson Street.

Owner: Mississippi Fair Commission.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 260 ft.

DATUM.--Land-surface datum is 271 ft above sea level (from topographic map).

Measuring point: Top of 4-in casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--June 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 99.01 ft below land-surface datum, June 6, 1986, lowest measured 110.22 ft below land-surface datum, Sept. 20, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 29 | 109.62      | DEC 13 | 109.46      | FEB 23 | 109.68      | APR 27 | 109.71      | JUN 13 | 109.81      | AUG 21 | 110.20      |
| NOV 17 | 109.61      | JAN 25 | 109.54      | MAR 29 | 109.42      | ---    | ---         | JUL 25 | 110.00      | SEP 20 | 110.22      |

320554090173902. Local number, V033.

LOCATION.--Lat 32°04'30", long 90°54'33", in NW1/4 SW1/4 sec.15, T.3 N., R.1 W., Choctaw Meridian, Hinds County.

Hydrologic Unit 03180002, near intersection of Jackson Street and Raymond Street in Terry.

Owner: Town of Terry.

AQUIFER.--Sand of Forest Hill Formation of Oligocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10 in, depth 473 ft.

DATUM.--Land-surface datum is 286 ft above sea level (from topographic map).

Measuring point: Top of concrete base, 1.65 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--September 1959, September 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65 ft below land-surface datum, Sept. 1959, lowest measured, 199.57 ft below land-surface datum, Oct. 5, 1999.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|
| OCT 5 | 199.57      | APR 27 | 184.99      |

## MADISON COUNTY

322415090085001. Local number, V029.

LOCATION.--Lat 32°24'22", long 90°09'45", in NW1/4 SE1/4 sec.35, T.7 N., R.1 E., Choctaw Meridian, Madison County.

Hydrologic Unit 03180002, 0.1 mi west of center of Tougaloo at Tougaloo College.

Owner: Tougaloo College.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled institutional use artesian well, diameter 12 in, depth 831 ft.

DATUM.--Land-surface datum is 355 ft above sea level (from topographic map).

Measuring point: 3/4-in air vent, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--June 1969, July 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 233 ft below land-surface datum, June 1969, lowest measured, 320.35 ft below land-surface datum, Sept. 20, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 29 | 310.11      | DEC 13 | 309.65      | FEB 23 | 309.79      | APR 27 | 305.49      | JUN 13 | 308.40      | AUG 21 | 318.54      |
| NOV 17 | 309.23      | JAN 25 | 305.62      | MAR 29 | 305.06      | ---    | ---         | JUL 25 | 319.12      | SEP 20 | 320.35      |

322627090062401. Local number, W005.

LOCATION.--Lat 32°26'27", long 90°06'24", in NE1/4 NE1/4 sec.20, T.7 N., R.2 E., Choctaw Meridian, Madison County.

Hydrologic Unit 03180002, 1 mi southeast of center of Madison near Bruce Campbell Airport.

Owner: Willard F. Bond Home.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 500 ft.

DATUM.--Land-surface datum is 320 ft above sea level (from topographic map).

Measuring point: Top of concrete base 0.50 ft or hole in plate on well head (since Apr. 24, 1961) at land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--January 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 112.88 ft below land-surface datum, Apr. 12, 1957, lowest measured, 206.25 ft below land-surface datum, Oct. 5, 1999.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|
| OCT 5 | 206.25      | APR 27 | 190.66      |

322528090080401. Local number, W036.

LOCATION.--Lat 32°25'28", long 90°08'04", in NE1/4 NW1/4 sec.30, T.7 N., R.2 E., Choctaw Meridian, Madison County.

Hydrologic Unit 03180002, near US Highway 51 and Natchez Trace in Ridgeland.

Owner: City of Ridgeland.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused public supply artesian well, diameter 10 in, depth 690 ft.

DATUM.--Land-surface datum is 360 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 2.00 ft above land-surface datum.

REMARKS.--Water level affected by limited time pump off.

PERIOD OF RECORD.--October 1963, April 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 167 ft below land-surface datum, Oct. 14, 1963, lowest measured, 263.57 ft below land-surface datum, Sept. 20, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 29 | 250.16      | DEC 13 | 245.90      | FEB 23 | 239.94      | APR 27 | 237.25      | JUN 13 | 246.03      | AUG 21 | 260.64      |
| NOV 17 | 248.28      | JAN 25 | 241.98      | MAR 29 | 238.38      | ---    | ---         | JUL 25 | 250.21      | SEP 20 | 263.57      |



## MADISON COUNTY--Continued

322514090080901. Local number, W069.

LOCATION.--Lat 32°25'13", long 90°08'10", in NE1/4 SW1/4 sec.30, T.7 N., R.2 E., Choctaw Meridian, Madison County.  
Hydrologic Unit 03180002, 0.5 mi south of Natchez Trace, west side of U.S. Highway 51 at Ridgeland.

Owner: City of Ridgeland.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16-inch, depth 1161 ft.

DATUM.--Land-surface datum is 350 ft above sea level (from topographic map).

Measuring point: 34-inch air vent, 1.70 ft above land-surface datum.

REMARKS.--Water levels affected by the length of pumping time prior to recovery and measurement.

PERIOD OF RECORD.--December 1986, September 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 258 ft below land-surface datum, Dec. 30, 1986, lowest measured, 329.10 ft below land-surface datum, Aug. 21, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 29 | 316.09      | DEC 13 | 306.65      | FEB 23 | 308.08      | APR 27 | 309.88      | JUN 13 | 313.80      | AUG 21 | 329.10      |
| NOV 17 | 312.69      | JAN 25 | 306.90      | MAR 29 | 307.94      | ---    | ---         | JUL 25 | 324.62      | SEP 20 | 327.45      |

322702090082301. Local number, W074.

LOCATION.--Lat 32°27'02", long 90°08'23", in SW1/4 NW1/4 sec.18, T.7 N., R.2 E., Choctaw Meridian, Madison County.  
Hydrologic Unit 03180002, 0.75 mi southwest of center of Madison.

Owner: City of Madison.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 1380 ft.

DATUM.--Land-surface datum is 379 ft above sea level (from topographic map).

Measuring point: Vent pipe at pump base, 1.10 ft above land-surface datum.

REMARKS.--Water level affected by limited time pump off.

PERIOD OF RECORD.--November 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 290.42 ft below land-surface datum, Dec. 22, 1987, lowest measured, 343.98 below land-surface datum, Oct. 5, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | WATER LEVEL |
|-------|-------------|
| OCT 5 | 343.98      |

## RANKIN COUNTY

322249089582101. Local number, G043.

LOCATION.--Lat 32°22'49", long 89°58'21", in SW1/4 NW1/4 sec.10, T.6 N., R.3 E., Choctaw Meridian, Rankin County.  
Hydrologic Unit 03180002, 7.4 mi north of Brandon on Spillway road.

Owner: Pearl River Valley Water Supply District.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16 in, depth 1,190 ft.

DATUM.--Land-surface datum is 320 ft above sea level (from topographic map).

Measuring point: Air vent at pump motor base, 1.70 ft above land-surface datum.

REMARKS.--Water level affected by limited time pump off.

PERIOD OF RECORD.--November 1980, August 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 155 ft below land-surface datum, Nov. 9, 1980, lowest measured, 244.50 ft below land-surface datum, Oct. 5, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|
| OCT 5 | 244.50      | APR 27 | 223.44      |

321735090022201. Local number, K067.

LOCATION.--Lat 32°17'37", long 90°08'42", in SE1/4 NE1/4 sec. 12, T.5 N., R.1 E., Choctaw Meridian, Rankin County.  
Hydrologic Unit 03180002, 1 mi north of U.S. Highway 80 on State Highway 468 at Payne Drive in Flowood.

Owner: City of Flowood.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused public supply well, diameter 4 in, depth 714 ft.

DATUM.--Land-surface datum is 266 ft above sea level.

Measuring point: Top of 4-in casing, 3.05 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--November 1958, February 1996 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 117.95 ft below land-surface datum Nov. 1958, lowest measured 236.98 ft below land-surface datum, Apr. 27, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE  | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|
| OCT 6 | 236.91      | APR 27 | 236.98      |

321423090045501. Local number, K073.

LOCATION.--Lat 32°14'26", long 90°04'47", in SW1/4 SE1/4 sec. 27, T.5 N., R.2 E., Choctaw Meridian, Rankin County.  
Hydrologic Unit 03180002, near intersection of State Highway 468 and Airport Road at Whitfield.

Owner: Department of Mental Health, Hudspheth Center.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10-in casing, 4-in screen, depth 789 ft.

DATUM.--Land-surface datum is 305 ft above sea level.

Measuring point: Top of 10-in casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--Miscellaneous water-level measurements June 1961, September 1998 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 133 ft below land-surface datum, Jun. 9, 1961, lowest measured, 208.68 ft below land-surface datum Aug. 21, 2000.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 29 | 201.55      | DEC 13 | 199.12      | FEB 22 | 195.30      | APR 27 | 194.59      | JUN 13 | 197.98      | AUG 21 | 208.68      |
| NOV 17 | 200.91      | JAN 25 | 196.80      | MAR 29 | 195.57      | ---    | ---         | JUL 25 | 204.65      | SEP 28 | 206.00      |

Aquifer names corresponding to geologic units listed in the QUALITY OF GROUND WATER table are given below.

| Geologic Unit | Aquifer Name                                                          |
|---------------|-----------------------------------------------------------------------|
| 110ALVM       | Quaternary alluvium, Quaternary                                       |
| 110TRCS       | Undifferentiated terrace deposits, Quaternary                         |
| 111ALVM       | Holocene alluvium, Holocene                                           |
| 111TRCS       | Undifferentiated terrace deposits, Holocene                           |
| 112MRVA       | Mississippi River alluvial aquifer, Pleistocene                       |
| 112TRCS       | Undifferentiated terrace deposits, Pleistocene                        |
| 121CRNL       | Citronelle Formation, Pliocene                                        |
| 121GRMF       | Graham Ferry Formation, Pliocene                                      |
| 122PCGL       | Pascagoula Formation, Miocene                                         |
| 122HBRG       | Hattiesburg Formation, Miocene                                        |
| 122MOCN       | Miocene Series, Miocene                                               |
| 122CTHL       | Catahoula Formation, Miocene                                          |
| 122CTHLU      | Upper Catahoula Formation, Miocene                                    |
| 122CTHLM      | Middle Catahoula Formation, Miocene                                   |
| 122CTHLL      | Lower Catahoula Formation, Miocene                                    |
| 123WSBR       | Waynesboro Sand Lentil (informal usage) of Byram Formation, Oligocene |
| 123CCKS       | Chickasawhay Limestone, Oligocene                                     |
| 123VKBG       | Vicksburg Group, Oligocene                                            |
| 123MSPG       | Mint Spring Marl member of Marianna Limestone, Oligocene              |
| 123FRHL       | Forest Hill Sand, Oligocene                                           |
| 124MDBC       | Moodys Branch Formation, Eocene                                       |
| 124CCKF       | Cockfield Formation, Eocene                                           |
| 124SPRT       | Sparta Sand, Eocene                                                   |
| 124TLTL       | Tallahatta Formation, Eocene                                          |
| 124MUWX       | Meridian-Upper Wilcox aquifer, Eocene                                 |
| 124WLCXM      | Middle Wilcox aquifer, Eocene                                         |
| 124WLCXL      | Lower Wilcox aquifer, Eocene                                          |
| 211RPLY       | Ripley Formation, Upper Cretaceous                                    |
| 211COFF       | Coffee Sand, Upper Cretaceous                                         |
| 211EUTW       | Eutaw Formation, Upper Cretaceous                                     |
| 211EUTWR      | Eutaw Formation (restricted), Upper Cretaceous                        |
| 211EUTWL      | Lower Eutaw Formation, Upper Cretaceous                               |
| 211MCSN       | McShan Formation, Upper Cretaceous                                    |
| 211GORD       | Gordo Formation, Upper Cretaceous                                     |
| 211COKR       | Coker Formation, Upper Cretaceous                                     |
| 211MSSV       | Massive Sand, Upper Cretaceous                                        |
| 300PLZC       | Paleozoic Erathem, Paleozoic                                          |
| 331TCMB       | Tuscumbia Limestone, Upper Mississippian                              |
| 337FRPN       | Fort Payne Chert, Lower Mississippian                                 |

## QUALITY OF GROUND WATER

357

## HARRISON COUNTY

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

303405089100001 B245 HARRISON RIVER BEND

| DATE      | TIME | GEO-LOGIC UNIT | PH WATER WHOLE FIELD (STAND-ARD UNITS) | SPE-CIFIC CON-DUCT-ANCE (US/CM) | TEMPER-ATURE WATER (DEG C) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | COLOR (PLAT-INUM-COBALT UNITS) | DEPTH OF WELL, TOTAL (FEET) | SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) |
|-----------|------|----------------|----------------------------------------|---------------------------------|----------------------------|------------------------------------|--------------------------------|-----------------------------|---------------------------------------------|
| APR 17... | 1405 | 122PCGL        | 8.8                                    | 218                             | 25.5                       | 2.3                                | <5                             | 706.00                      | 145                                         |

| DATE      | TIME | WELL PURGING CONDI-TION (CODE) | IRON, DIS-SOLVED (UG/L AS FE) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) | SAM-PLING CONDI-TION (CODE) | SAM-PLING METHOD, CODES |
|-----------|------|--------------------------------|-------------------------------|-------------------------------------|----------------------------------------------|---------------|---------------------|-----------------------------|-------------------------|
| APR 17... | 120  | 13                             | 15                            | 5                                   | 26                                           | 4045          | 8.00                | 4045                        |                         |

303732089032101 C019 HARRISON

| DATE      | TIME | GEO-LOGIC UNIT | PH WATER WHOLE FIELD (STAND-ARD UNITS) | SPE-CIFIC CON-DUCT-ANCE (US/CM) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | COLOR (PLAT-INUM-COBALT UNITS) | DEPTH OF WELL, TOTAL (FEET) | SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) |
|-----------|------|----------------|----------------------------------------|---------------------------------|------------------------------------|--------------------------------|-----------------------------|---------------------------------------------|
| APR 17... | 1300 | 121GRMF        | 8.8                                    | 281                             | 2.5                                | <5                             | 230.00                      | 185                                         |

| DATE      | TIME | WELL PURGING CONDI-TION (CODE) | IRON, DIS-SOLVED (UG/L AS FE) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) | SAM-PLING CONDI-TION (CODE) | SAM-PLING METHOD, CODES |
|-----------|------|--------------------------------|-------------------------------|-------------------------------------|----------------------------------------------|---------------|---------------------|-----------------------------|-------------------------|
| APR 17... | 120  | 30                             | 17                            | 10                                  | 26                                           | 4040          | 8.00                | 4040                        |                         |

303812089011001 D021 HARRISON

| DATE      | TIME | GEO-LOGIC UNIT | PH WATER WHOLE FIELD (STAND-ARD UNITS) | SPE-CIFIC CON-DUCT-ANCE (US/CM) | TEMPER-ATURE WATER (DEG C) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | COLOR (PLAT-INUM-COBALT UNITS) | DEPTH OF WELL, TOTAL (FEET) |
|-----------|------|----------------|----------------------------------------|---------------------------------|----------------------------|------------------------------------|--------------------------------|-----------------------------|
| APR 17... | 1630 | 121GRMF        | 8.7                                    | 288                             | 23.0                       | 3.3                                | <5                             | 252.00                      |

| DATE      | TIME | SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) | WELL PURGING CONDI-TION (CODE) | IRON, DIS-SOLVED (UG/L AS FE) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) | SAM-PLING CONDI-TION (CODE) | SAM-PLING METHOD, CODES |
|-----------|------|---------------------------------------------|--------------------------------|-------------------------------|-------------------------------------|---------------|---------------------|-----------------------------|-------------------------|
| APR 17... | 166  | 120                                         | 10                             | 4.6                           | 26                                  | 4090          | 8.00                | 4090                        |                         |

303132089153501 E126 HARRISON

| DATE      | TIME | GEO-LOGIC UNIT | PH WATER WHOLE FIELD (STAND-ARD UNITS) | SPE-CIFIC CON-DUCT-ANCE (US/CM) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) | COLOR (PLAT-INUM-COBALT UNITS) | DEPTH OF WELL, TOTAL (FEET) | SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L) |
|-----------|------|----------------|----------------------------------------|---------------------------------|------------------------------------|--------------------------------|-----------------------------|---------------------------------------------|
| APR 18... | 1545 | 121GRMF        | 7.1                                    | 171                             | 3.2                                | <5                             | 550.00                      | 131                                         |

| DATE      | TIME | WELL PURGING CONDI-TION (CODE) | IRON, DIS-SOLVED (UG/L AS FE) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) | SAM-PLING CONDI-TION (CODE) | SAM-PLING METHOD, CODES |
|-----------|------|--------------------------------|-------------------------------|-------------------------------------|---------------|---------------------|-----------------------------|-------------------------|
| APR 18... | 120  | 110                            | 55                            | 26                                  | 4090          | 8.00                | 4090                        |                         |

## QUALITY OF GROUND WATER

## HARRISON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

303244089003601 H279 HARRISON

| DATE      | TIME                                                            | GEO-LOGIC UNIT                 | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)     | TEMPER-ATURE WATER (DEG C) (00010)                   | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | COLOR (PLAT-INUM-COBALT UNITS) (00080) | DEPTH OF WELL, TOTAL (FEET) (72008) | FLOW RATE (G/M) (00059)         |
|-----------|-----------------------------------------------------------------|--------------------------------|------------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|---------------------------------|
| APR 18... | 1055                                                            | 122PCGL                        | 8.1                                            | 328                                         | 23.0                                                 | 2.2                                        | <5                                     | 490.00                              | 50.0                            |
| DATE      | SOLIDS, RESIDUE AT 180 DEG. C PURGING DIS-SOLVED (MG/L) (70300) | WELL CONDI-TION (CODE) (84143) | IRON, DIS-SOLVED (UG/L AS FE) (01046)          | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004) | SAMPLE SOURCE (72005)                      | SAMPLER TYPE (CODE) (84164)            | SAM-PLING CONDI-TION (72006)        | SAM-PLING METHOD, CODES (82398) |

|           |     |     |    |    |    |    |      |      |      |
|-----------|-----|-----|----|----|----|----|------|------|------|
| APR 18... | 211 | 120 | 43 | 35 | 10 | 26 | 4040 | 8.00 | 4040 |
|-----------|-----|-----|----|----|----|----|------|------|------|

302610089173401 J210 HARRISON

| DATE      | TIME                                   | GEO-LOGIC UNIT                        | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)              | TEMPER-ATURE WATER (DEG C) (00010) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | COLOR (PLAT-INUM-COBALT UNITS) (00080) | DEPTH OF WELL, TOTAL (FEET) (72008) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) |
|-----------|----------------------------------------|---------------------------------------|------------------------------------------------|------------------------------------------------------|------------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|---------------------------------------------------------|
| APR 19... | 1605                                   | 121GRMF                               | 7.4                                            | 205                                                  | 23.0                               | 3.4                                        | <5                                     | 435.00                              | 158                                                     |
| DATE      | WELL PURGING CONDI-TION (CODE) (84143) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)    | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004) | SAMPLE SOURCE (72005)              | SAMPLER TYPE (CODE) (84164)                | SAM-PLING CONDI-TION (72006)           | SAM-PLING METHOD, CODES (82398)     |                                                         |

|           |     |    |     |    |    |      |      |      |
|-----------|-----|----|-----|----|----|------|------|------|
| APR 19... | 120 | 94 | 110 | 10 | 26 | 4040 | 8.00 | 4040 |
|-----------|-----|----|-----|----|----|------|------|------|

302403089153301 J290 HARRISON

| DATE      | TIME                                                            | GEO-LOGIC UNIT                 | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)     | TEMPER-ATURE WATER (DEG C) (00010) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | COLOR (PLAT-INUM-COBALT UNITS) (00080) | DEPTH OF WELL, TOTAL (FEET) (72008) |
|-----------|-----------------------------------------------------------------|--------------------------------|------------------------------------------------|---------------------------------------------|------------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|
| APR 19... | 1515                                                            | 122PCGL                        | 8.1                                            | 428                                         | 26.0                               | 2.6                                        | 5                                      | 935.00                              |
| DATE      | SOLIDS, RESIDUE AT 180 DEG. C PURGING DIS-SOLVED (MG/L) (70300) | WELL CONDI-TION (CODE) (84143) | IRON, DIS-SOLVED (UG/L AS FE) (01046)          | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | SAMPLE SOURCE (72005)              | SAMPLER TYPE (CODE) (84164)                | SAM-PLING CONDI-TION (72006)           | SAM-PLING METHOD, CODES (82398)     |

|           |     |     |     |     |    |      |      |      |
|-----------|-----|-----|-----|-----|----|------|------|------|
| APR 19... | 261 | 120 | 3.6 | 9.6 | 26 | 4045 | 8.00 | 4045 |
|-----------|-----|-----|-----|-----|----|------|------|------|

302506089113601 K329 HARRISON

| DATE      | TIME                                                            | GEO-LOGIC UNIT                 | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)     | TEMPER-ATURE WATER (DEG C) (00010) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | COLOR (PLAT-INUM-COBALT UNITS) (00080) | DEPTH OF WELL, TOTAL (FEET) (72008) |
|-----------|-----------------------------------------------------------------|--------------------------------|------------------------------------------------|---------------------------------------------|------------------------------------|--------------------------------------------|----------------------------------------|-------------------------------------|
| APR 19... | 1645                                                            | 121GRMF                        | 7.9                                            | 216                                         | 23.5                               | 3.1                                        | <5                                     | 310.00                              |
| DATE      | SOLIDS, RESIDUE AT 180 DEG. C PURGING DIS-SOLVED (MG/L) (70300) | WELL CONDI-TION (CODE) (84143) | IRON, DIS-SOLVED (UG/L AS FE) (01046)          | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | SAMPLE SOURCE (72005)              | SAMPLER TYPE (CODE) (84164)                | SAM-PLING CONDI-TION (72006)           | SAM-PLING METHOD, CODES (82398)     |

|           |     |     |    |    |    |      |      |      |
|-----------|-----|-----|----|----|----|------|------|------|
| APR 19... | 155 | 120 | 34 | 37 | 26 | 4040 | 8.00 | 4040 |
|-----------|-----|-----|----|----|----|------|------|------|

## QUALITY OF GROUND WATER

359

## HARRISON COUNTY--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

302656089111201 K382 HARRISON

| DATE      | TIME | GEO-LOGIC UNIT | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | SPE-CIFIC CONDUCTANCE (US/CM) (00095) | TEMPERATURE WATER (DEG C) (00010) | CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940) | COLOR (PLATINUM-COBALT UNITS) (00080) | DEPTH OF WELL, TOTAL (FEET) (72008) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) |
|-----------|------|----------------|-----------------------------------------------|---------------------------------------|-----------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------------------------|
| APR 21... | 0815 | 122PCGL        | 7.9                                           | 275                                   | 24.0                              | 2.7                                       | <5                                    | 800.00                              | 186                                                     |

| DATE      | TIME | WELL PURGING CONDITION (CODE) (84143) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGANESE, DIS-SOLVED (UG/L AS MN) (01056) | PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004) | SAMPLE SOURCE (72005) | SAMPLER TYPE (CODE) (84164) | SAMPLING CONDITION (72006) | SAMPLING METHOD, CODES (82398) |
|-----------|------|---------------------------------------|---------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------|-----------------------------|----------------------------|--------------------------------|
| APR 21... | 120  | 18                                    | 19                                    | 25                                         | 26                                                  | 4040                  | 8.00                        | 4040                       |                                |

302500089032601 L452 HARRISON

| DATE      | TIME | GEO-LOGIC UNIT | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | SPE-CIFIC CONDUCTANCE (US/CM) (00095) | TEMPERATURE WATER (DEG C) (00010) | CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940) | COLOR (PLATINUM-COBALT UNITS) (00080) | DEPTH OF WELL, TOTAL (FEET) (72008) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) |
|-----------|------|----------------|-----------------------------------------------|---------------------------------------|-----------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------------------------|
| APR 18... | 1530 | 121GRMF        | 6.6                                           | 212                                   | 24.5                              | 3.4                                       | <5                                    | 560.00                              | 157                                                     |

| DATE      | TIME | WELL PURGING CONDITION (CODE) (84143) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGANESE, DIS-SOLVED (UG/L AS MN) (01056) | PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004) | SAMPLE SOURCE (72005) | SAMPLER TYPE (CODE) (84164) | SAMPLING CONDITION (72006) | SAMPLING METHOD, CODES (82398) |
|-----------|------|---------------------------------------|---------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------|-----------------------------|----------------------------|--------------------------------|
| APR 18... | 120  | 150                                   | 25                                    | 15                                         | 26                                                  | 4040                  | 8.00                        | 4040                       |                                |

302545089054501 L701 HARRISON GULFPORT

| DATE      | TIME | GEO-LOGIC UNIT | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | SPE-CIFIC CONDUCTANCE (US/CM) (00095) | TEMPERATURE WATER (DEG C) (00010) | CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940) | COLOR (PLATINUM-COBALT UNITS) (00080) | DEPTH OF WELL, TOTAL (FEET) (72008) |
|-----------|------|----------------|-----------------------------------------------|---------------------------------------|-----------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------|
| APR 18... | 0830 | 121GRMF        | 8.6                                           | 255                                   | 25.0                              | 2.8                                       | <5                                    | 829.00                              |

| DATE      | TIME | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | WELL PURGING CONDITION (CODE) (84143) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGANESE, DIS-SOLVED (UG/L AS MN) (01056) | SAMPLE SOURCE (72005) | SAMPLER TYPE (CODE) (84164) | SAMPLING CONDITION (72006) | SAMPLING METHOD, CODES (82398) |
|-----------|------|---------------------------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------------|-----------------------|-----------------------------|----------------------------|--------------------------------|
| APR 18... | 171  | 120                                                     | 7.2                                   | 12                                    | 26                                         | 4045                  | 8.00                        | 4045                       |                                |

302642089043701 L702 HARRISON

| DATE      | TIME | GEO-LOGIC UNIT | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | SPE-CIFIC CONDUCTANCE (US/CM) (00095) | TEMPERATURE WATER (DEG C) (00010) | CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940) | COLOR (PLATINUM-COBALT UNITS) (00080) | DEPTH OF WELL, TOTAL (FEET) (72008) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) |
|-----------|------|----------------|-----------------------------------------------|---------------------------------------|-----------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------------------------|
| APR 18... | 1220 | 121GRMF        | 8.1                                           | 173                                   | 21.5                              | 2.9                                       | <5                                    | 560.00                              | 145                                                     |

| DATE      | TIME | WELL PURGING CONDITION (CODE) (84143) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGANESE, DIS-SOLVED (UG/L AS MN) (01056) | PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004) | SAMPLE SOURCE (72005) | SAMPLER TYPE (CODE) (84164) | SAMPLING CONDITION (72006) | SAMPLING METHOD, CODES (82398) |
|-----------|------|---------------------------------------|---------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------|-----------------------------|----------------------------|--------------------------------|
| APR 18... | 120  | 130                                   | 60                                    | 5                                          | 26                                                  | 4090                  | 8.00                        | 4090                       |                                |

## QUALITY OF GROUND WATER

## HARRISON COUNTY--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

302800089072001 L725 HARRISON ORANGE GROVE

| DATE | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
|------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|

|           |      |         |     |     |      |     |    |        |     |
|-----------|------|---------|-----|-----|------|-----|----|--------|-----|
| APR 18... | 0920 | 121GRMF | 8.1 | 233 | 25.0 | 2.7 | <5 | 710.00 | 169 |
|-----------|------|---------|-----|-----|------|-----|----|--------|-----|

| DATE | WELL<br>PURGING<br>CONDI-<br>TION<br>(CODE)<br>(84143) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056) | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN)<br>(72004) | SAMPLE<br>SOURCE<br>(72005) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SAM-<br>PLING<br>CONDI-<br>TION<br>(72006) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) |
|------|--------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|--------------------------------------|--------------------------------------------|----------------------------------------------|
|------|--------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|--------------------------------------|--------------------------------------------|----------------------------------------------|

|           |     |    |    |   |    |      |      |      |
|-----------|-----|----|----|---|----|------|------|------|
| APR 18... | 120 | 45 | 34 | 5 | 26 | 4045 | 8.00 | 4045 |
|-----------|-----|----|----|---|----|------|------|------|

302745089004401 M399 HARRISON SUPERIOR

| DATE | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
|------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|

|           |      |         |     |     |      |     |   |        |     |
|-----------|------|---------|-----|-----|------|-----|---|--------|-----|
| APR 20... | 1410 | 121GRMF | 6.8 | 177 | 23.5 | 2.9 | 5 | 528.00 | 140 |
|-----------|------|---------|-----|-----|------|-----|---|--------|-----|

| DATE | WELL<br>PURGING<br>CONDI-<br>TION<br>(CODE)<br>(84143) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056) | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN)<br>(72004) | SAMPLE<br>SOURCE<br>(72005) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SAM-<br>PLING<br>CONDI-<br>TION<br>(72006) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) |
|------|--------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|--------------------------------------|--------------------------------------------|----------------------------------------------|
|------|--------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|--------------------------------------|--------------------------------------------|----------------------------------------------|

|           |     |     |    |    |    |      |      |      |
|-----------|-----|-----|----|----|----|------|------|------|
| APR 20... | 120 | 280 | 12 | 10 | 26 | 4040 | 8.00 | 4040 |
|-----------|-----|-----|----|----|----|------|------|------|

302640088555301 M742 HARRISON

| DATE | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | WELL<br>PURGING<br>CONDI-<br>TION<br>(CODE)<br>(84143) |
|------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|
|------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|

|           |      |     |     |      |     |    |     |     |
|-----------|------|-----|-----|------|-----|----|-----|-----|
| APR 20... | 1130 | 7.3 | 204 | 24.5 | 3.3 | <5 | 158 | 120 |
|-----------|------|-----|-----|------|-----|----|-----|-----|

| DATE | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056) | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN)<br>(72004) | SAMPLE<br>SOURCE<br>(72005) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SAM-<br>PLING<br>CONDI-<br>TION<br>(72006) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) |
|------|-------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|--------------------------------------|--------------------------------------------|----------------------------------------------|
|------|-------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|--------------------------------------|--------------------------------------------|----------------------------------------------|

|           |     |     |    |    |      |      |      |
|-----------|-----|-----|----|----|------|------|------|
| APR 20... | 230 | 150 | 15 | 26 | 4040 | 8.00 | 4040 |
|-----------|-----|-----|----|----|------|------|------|

302708088532601 M749 HARRISON D'IBERVILLE

| DATE | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
|------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|

|           |      |         |     |     |      |    |   |        |     |
|-----------|------|---------|-----|-----|------|----|---|--------|-----|
| APR 20... | 1240 | 122PCGL | 8.5 | 386 | 27.5 | 14 | 5 | 860.00 | 232 |
|-----------|------|---------|-----|-----|------|----|---|--------|-----|

| DATE | WELL<br>PURGING<br>CONDI-<br>TION<br>(CODE)<br>(84143) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056) | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN)<br>(72004) | SAMPLE<br>SOURCE<br>(72005) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SAM-<br>PLING<br>CONDI-<br>TION<br>(72006) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) |
|------|--------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|--------------------------------------|--------------------------------------------|----------------------------------------------|
|------|--------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|--------------------------------------|--------------------------------------------|----------------------------------------------|

|           |     |     |    |    |    |      |      |      |
|-----------|-----|-----|----|----|----|------|------|------|
| APR 20... | 120 | 4.0 | 14 | 10 | 26 | 4045 | 8.00 | 4045 |
|-----------|-----|-----|----|----|----|------|------|------|

## QUALITY OF GROUND WATER

361

## HARRISON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

302611088572201 M795 HARRISON BILOXI

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 20... | 0905 | 122PCGL        | 7.7                                                                  | 325                                                          | 27.0                                            | 7.9                                                            | <5                                                      | 900.00                                             | 200                                                                           |

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 20... | 120  | 3.2            | 7.1                                                                  | 15                                                           | 26                                              | 4045                                                           | 8.00                                                    | 4045                                               |                                                                               |

302334088583501 M800 HARRISON

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 20... | 0725 | 121GRMF        | 7.6                                                                  | 329                                                          | 25.0                                            | 4.6                                                            | <5                                                      | 680.00                                             |                                                                               |

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 20... | 202  | 120            | 2.3                                                                  | 7.5                                                          | 26                                              | 4040                                                           | 8.00                                                    | 4040                                               |                                                                               |

301830089173701 N287 HARRISON

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 1215 | 121GRMF        | 8.8                                                                  | 529                                                          | 27.0                                            | 32                                                             | 5                                                       | 966.00                                             | 318                                                                           |

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 120  | 8.6            | 7.4                                                                  | 5                                                            | 26                                              | 4040                                                           | 8.00                                                    | 4040                                               |                                                                               |

301832089171301 N313 HARRISON PASS CHRISTIAN

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 1115 | 122PCGL        | 8.8                                                                  | 566                                                          | 27.5                                            | 36                                                             | 10                                                      | 982.00                                             | 341                                                                           |

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 120  | 6.8            | 7.4                                                                  | 5                                                            | 26                                              | 4045                                                           | 8.00                                                    | 4045                                               |                                                                               |



## QUALITY OF GROUND WATER

## HARRISON COUNTY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

302246089160201 N337 HARRISON

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 1400 | 121GRMF        | 7.5                                                                  | 209                                                          | 22.5                                            | 3.1                                                            | <5                                                      | 357.00                                             | 160                                                                           |

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 120  | 83             | 120                                                                  | 25                                                           | 26                                              | 4090                                                           | 8.00                                                    | 4090                                               |                                                                               |

302020089110001 O123 HARRISON LONG BEACH

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 0950 | 122PCGL        | 7.4                                                                  | 278                                                          | 25.5                                            | 2.7                                                            | 5                                                       | 873.00                                             | 190                                                                           |

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 120  | 230            | 250                                                                  | 5                                                            | 26                                              | 4045                                                           | 8.00                                                    | 4045                                               |                                                                               |

302139089084401 O296 HARRISON LONG BEACH

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 0900 | 122PCGL        | 7.0                                                                  | 247                                                          | 26.0                                            | 3.1                                                            | 5                                                       | 862.00                                             |                                                                               |

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 175  | 120            | 11                                                                   | 42                                                           | 29                                              | 4045                                                           | 8.00                                                    | 4045                                               |                                                                               |

302132089084901 O355 HARRISON LONG BEACH

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 0840 | 122HBRG        | 8.7                                                                  | 380                                                          | 29.0                                            | 16                                                             | 5                                                       | 1670.00                                            | 230                                                                           |

| DATE      | TIME | GEO-LOGIC UNIT | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|-----------|------|----------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|
| APR 19... | 120  | 6.0            | 11                                                                   | 5                                                            | 26                                              | 4100                                                           | 8.00                                                    | 4100                                               |                                                                               |

|                                                  | page         |                                                 | Page      |
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## CONVERSION FACTORS AND VERTICAL DATUM

| Multiply                                           | By                     | To obtain                  |
|----------------------------------------------------|------------------------|----------------------------|
| <i>Length</i>                                      |                        |                            |
| inch (in.)                                         | $2.54 \times 10^1$     | millimeter                 |
|                                                    | $2.54 \times 10^{-2}$  | meter                      |
| foot (ft)                                          | $3.048 \times 10^{-1}$ | meter                      |
| mile (mi)                                          | $1.609 \times 10^0$    | kilometer                  |
| <i>Area</i>                                        |                        |                            |
| acre                                               | $4.047 \times 10^3$    | square meter               |
|                                                    | $4.047 \times 10^{-1}$ | square hectometer          |
|                                                    | $4.047 \times 10^{-3}$ | square kilometer           |
| square mile (mi <sup>2</sup> )                     | $2.590 \times 10^0$    | square kilometer           |
| <i>Volume</i>                                      |                        |                            |
| gallon (gal)                                       | $3.785 \times 10^0$    | liter                      |
|                                                    | $3.785 \times 10^0$    | cubic decimeter            |
|                                                    | $3.785 \times 10^{-3}$ | cubic meter                |
| million gallons (Mgal)                             | $3.785 \times 10^3$    | cubic meter                |
|                                                    | $3.785 \times 10^{-3}$ | cubic hectometer           |
| cubic foot (ft <sup>3</sup> )                      | $2.832 \times 10^1$    | cubic decimeter            |
|                                                    | $2.832 \times 10^{-2}$ | cubic meter                |
| cubic-foot-per-second day [(ft <sup>3</sup> /s) d] | $2.447 \times 10^3$    | cubic meter                |
|                                                    | $2.447 \times 10^{-3}$ | cubic hectometer           |
| acre-foot (acre-ft)                                | $1.233 \times 10^3$    | cubic meter                |
|                                                    | $1.233 \times 10^{-3}$ | cubic hectometer           |
|                                                    | $1.233 \times 10^{-6}$ | cubic kilometer            |
| <i>Flow</i>                                        |                        |                            |
| cubic foot per second (ft <sup>3</sup> /s)         | $2.832 \times 10^1$    | liter per second           |
|                                                    | $2.832 \times 10^1$    | cubic decimeter per second |
|                                                    | $2.832 \times 10^{-2}$ | cubic meter per second     |
| gallon per minute (gal/min)                        | $6.309 \times 10^{-2}$ | liter per second           |
|                                                    | $6.309 \times 10^{-2}$ | cubic decimeter per second |
|                                                    | $6.309 \times 10^{-5}$ | cubic meter per second     |
| million gallons per day (Mgal/d)                   | $4.381 \times 10^1$    | cubic decimeter per second |
|                                                    | $4.381 \times 10^{-2}$ | cubic meter per second     |
| <i>Mass</i>                                        |                        |                            |
| ton (short)                                        | $9.072 \times 10^{-1}$ | megagram or metric ton     |

*Sea level:* In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.



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